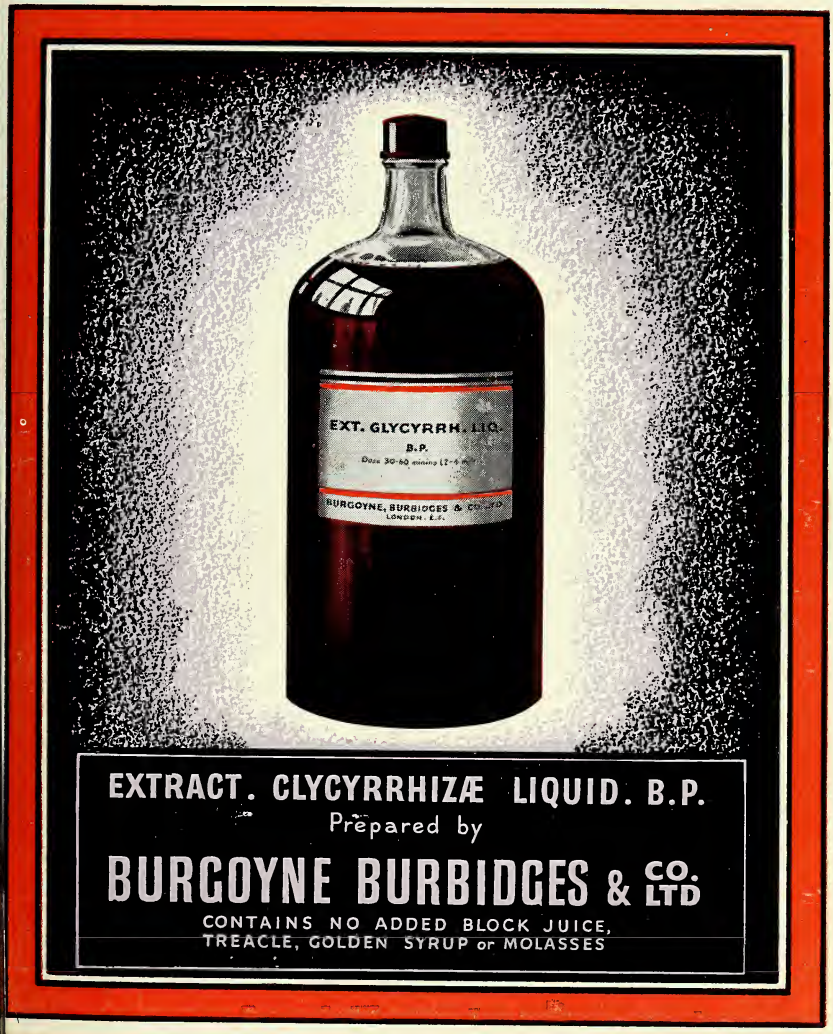
The
CHEMIST AND DRUGGIST
or RETAILER — WHOLESALER — MANUFACTURER
NOVEMBER 18, 1950



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The

CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER

NOVEMBER 18, 1950

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NEWS OF THE WEEK

ey Industry Duty Exemptions.—aldehyde and diphenylamine have exempted from Key Industry Duty he period October 16 to December 31.

ant for Cortisone Research.—The llers Co., Ltd., has made a grant of oo to the Royal Technical College, gow, for research work on cortisone. work will be directed by Professor k S. Spring.

ft to Library.—The Wellcome Trust offered £80,000 to the Royal Society edicine to enlarge the Society's library nmodation and to provide endowment he purchase of books and periodicals. extension of the library would be d "The Wellcome Research Library."

C.G. Leaflet.—An eight-page leaflet ining for lay readers the use of B.C.G. he against tuberculosis has been pub- by the National Association for the ntion of Tuberculosis, Tavistock e North, Tavistock Square, London, 1. Specimen copies may be obtained from the Association.

Distribution of German Property.—The Distribution of German Enemy Property (No. 1) Order, 1950 (S.I. 1950, No. 1642), which came into operation on October 23, provides for the collection and realisation of enemy property and for the appointment of an administrator by the Board of Trade.

Sulphuric Acid Price Increases.—The Board of Trade has agreed to an increase in the maximum prices of dilute sulphuric acid (B.O.V.) by 3s. per ton and concentrated sulphuric acid (R.O.V.) by 9s. 6d. per ton. These increases, which operate from November 13, are given effect by the Sulphuric Acid (Prices) (Amendment No. 2) Order, 1950 (S.I. 1950, No. 1784).

Chemists Federation.—At a meeting of the Chemists Federation Council held on November 2, the president (Mr. E. A. Brocklehurst) in the chair, the following addition to the schedule of C.F. agreements was accepted:—Christie George & Co. (Balmadren adrenaline cream). Two applications for wholesale membership

were not accepted. The names of Emmett Distributing Co., Ltd., Carlton Pharmaceutical Industries, Ltd., and Bio-Colloids, Ltd., were deleted from the list of wholesalers.

Researches on Glues.—At the second meeting of the research panel of the British Gelatine and Glue Research Association, held in London on October 12, Mr. A. G. Ward (director of research of the Association) read a paper entitled "Recent Studies of High Polymers in Relation to the Properties of Gelatin and Glue."

Water Purification Exhibit.—At the Public Works and Municipal Services Exhibition which was held in London from November 13-18, exhibits of pharmaceutical bearing included a demonstration of the M. P. Otto ozone process of purification of water, by the Compagnie des Eaux et de l'Ozone, Paris. The apparatus ozonises air extracted from the atmosphere and causes it to come into intimate contact with a supply of water. It is claimed that a sample of water taken immediately from the outlet would be sterile and that the mortality rate from typhoid in Nice, following the application of this process on a municipal scale, has been reduced to nil. The Department of Scientific and Industrial Research had an exhibit dealing with the work of the Water Pollution Research Laboratory at Watford, Herts.

Manx Chemists Quit Health Service.—The dispute between the Manx Chemists' Association and the Health Services Board (see *C. & D.*, October 14, p. 440) was carried a stage further on November 13 when thirty-four of the Isle of Man's forty chemists withdrew from the Health Service. The decision was taken at a meeting of the Association on November 10 when it was stated that the Lieutenant-Governor of the Island had refused to meet a deputation of chemists and had declined to allow the dispute to go to arbitration. Faced with one day's notice of withdrawal the Board issued a statement which asked people who lived outside Douglas and who required Health Service prescriptions dispensed to take them to their nearest police station where arrangements would be made to send them to Douglas for dispensing. On the first day 140 people took advantage of this service.

N.H.S. Supplementary Payment.—The Minister of Health has decided to make to chemists a supplementary payment on account with the normal payment account in December. It will be paid each contractor at the rate of 5 per c of the total amount paid to him in months May to September, 1950 inclus as payments on account for prescript dispensed during the months April August. Where the contractor has b providing pharmaceutical services for only of the period, the payment will calculated accordingly. Rota payme payments by way of final settlement previous months and special payments (for expensive drugs, etc.) will be exclu from the figures on which the supplem ary payment is based. Where it app to an Executive Council that the p ment would result in overpayment t particular contractor or where overpayn has for any reason already occurred, Council is to make "such adjustmen may be necessary" in the amount p The decision is contained in a circ letter addressed to Executive Coun Copies are to be sent to local Pharma tical Committees.

Board of Trade Retail Trade Figu —Steps are being taken by the Boar Trade to reinforce the retail sales fig which have been published in the B of Trade Journal each month during cent years. The figures cover departn stores, multiples, co-operative societies independent traders. Until 1946 the fig were drawn almost exclusively from sales returns of large-scale shops and st As it was felt that the month-to-m movements of these figures might no representative of other important sect of retail trade, it was decided to inc returns from medium-sized indepen shopkeepers. Since publication began three years ago, the number of shopkee making these voluntary returns has ter to fall off. The Board of Trade there propose to recruit additional contribut so that the present statistics can be n more reliable and more information lished. Interviewers will shortly be ca on a number of shopkeepers, including mists, throughout the country to ask t to become members of the Board of T panels. Shopkeepers visited will be inv to send in brief figures showing their sales each month. A code number wil used on the returns to ensure that vidual businesses cannot be identified by the staffs working on statistics. Board guarantee that information supp will be used solely for statistical purp

LOCAL NEWS

Pharmacists' Stall at Charity Fair.—embers of the Nottingham Branch of the armaceutical Society and their wives are anising a toilet and beauty preparations ll at the Nottingham November Fair, to held in the city on November 23. Prods of the stand will go to the funds of Nottingham Council of Social Service.

Harrow Branch Annual Dinner.—Over guests attended the annual dinner and ce of the Harrow Branch of the Pharceutical Society in London on Novem- 1. Mr. H. W. Tomski (chairman of Branch) proposed the toast "The Pharceutical Society and the President," to ch the response was made by Mr. A. A. drum (president of the Society). The eeds of the function were given to the ety's Benevolent Fund.

ribute from Education Committee.—rpool Education Committee in its an- report puts on record members sense he debt owed by the city of Liverpool Mr. H. Humphreys-Jones, F.R.I.C., ., for his valuable work over so many s in maintaining a high standard of maceutical education in Liverpool and rning out annually a steady stream of ified pharmacists for service in the macies of Merseyside and beyond." report states that a new department pharmacy will be provided in the instalment of the new buildings for Liverpool College of Technology.

ota Arrangements Ignored.—An exdinary meeting of the Reading ch of the Pharmaceutical Society was d recently by five members to discuss ota system in Reading. The meeting told that one member refused to con- to the system and was open until n. or later every evening except Wedy. Others in the area had therefore bliged to remain open. After disn it was decided to send a letter e pharmacist concerned asking for his ns for staying open. It was also d to send a similar letter to all other nacists who were opening outside the

irit Restrictions Urged.—After conng a report submitted by the Mediffficer of Health of St. Marylebone don) on increasing drunkenness in the gh due to methylated spirits drink- the borough council at a meet- recently decided to request the Metropolitan Boroughs Standing Joint Committee to make representations to the Home Office to the effect that surgical spirit be designated a Part I poison, and to H.M. Commissioners of Customs and Excise asking that further impalatable additives be made to mineralised methylated spirit. The report stated that both mineralised methylated spirit and surgical spirit B.P.C. No. 3 were being consumed in the borough.

Council Problems Discussed.—Addressing a meeting of the Liverpool Chemists' Association and Branch of the Pharmaceutical Society on October 19 on "Some Council Problems" Mr. Granville Shaw (a member of the Society's Council) said it had never been the policy of the Society to correlate the number of pharmacists registered with the economic conditions of the profession. The present shortage was not caused by the educational policy of the Society and there was no evidence to justify the idea that shortage of pharmacists would prejudice the National Health Service. In a discussion later, Mr. J. L. Hirst pressed for higher salaries in hospital pharmacy to attract pharmacists to that undermanned branch.

Dartford Dinner and Dance. — The guest of honour at the annual dinner and dance of the Dartford Branch of the Pharmaceutical Society, on October 26, was Miss M. C. Islip (a member of the Society's Council and president, Guild of Public Pharmacists). Proposing "The Dartford Branch," Miss Islip said that it had always been one of the most active in the country, and its keen interest in national affairs was manifest by the Branch resolutions sent up to London. Dartford members were fortunate to have local refresher courses provided each winter to keep their knowledge up-to-date. She congratulated the chairman of the Branch (Miss E. W. Robertson) on being the first woman to hold that office. "The Ladies and Visitors" was proposed by Mr. G. H. Sheard, who was thanked by the chairman for his continued efforts as secretary.

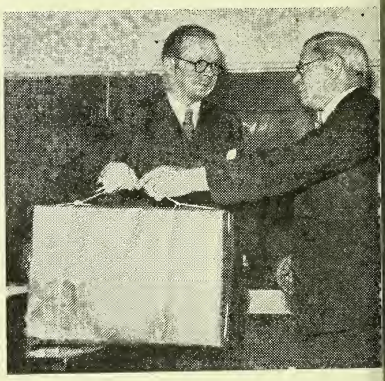
"One Voice in Pharmacy" Proposal.—Speaking at a meeting of the Derby Branch of the Pharmaceutical Society recently, Mr. H. Clement Shaw (immediate past-president of the Society) said "we are living in an age when the individual is tending to get submerged in the mass, and if the voice of pharmacy is to be heard it must be from a united body under one

authority." Members of the Society would naturally look to their Council for this, but as the pharmaceutical life in the country was a mixture of a profession and business the Council could not adequately protect its members outside the professional level. To overcome this he suggested the formation of a non-political pharmaceutical association, embracing all pharmacists, to deal with those matters outside the Charter. It could relieve the Council of some of its strain and have sectional interests in teaching, research, manufacturing, public services, retail (employer) and employee. Its set-up might be an executive, half to be elected by ballot and half to be nominated by the sectional groups. Apart from an initial period, no member should be on the executive more than a specified number of years without a break of at least a year, and the member should not be on both executive and Council (other than by co-option). Mr. Clement Shaw concluded: "Many attempts have been made to strengthen the voice of pharmacy. Only by a united association can this be done, and in my opinion a solution is to be found somewhat along the lines I have indicated. I invite you to consider the matter seriously in principle, avoiding at the moment particular detail over which we can all differ."

Amphetamines in Medicine. — The opening meeting for the session of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society was addressed by Dr. W. Bett on "The Amphetamines in Clinical Medicine." Amphetamine, he said, was the academic brainchild of two British scientists (George Barger and Sir Henry Dale) working in the Wellcome Physiological Research Laboratories. In 1910 they had included that substance in their classic study on the relationship between chemical structure and sympathomimetic action of amines. Amphetamine was synthesised in 1927 by Alles while he was looking for a substitute for ephedrine. In dextro-amphetamine (by contrast with amphetamine) the central nervous stimulant preponderated over the peripheral action. In many conditions *d*-amphetamine had become the drug of choice, though some prescribers continued to prefer amphetamine. The carbonate was introduced into medicine in 1932 as a nasal vaso-constrictor in the form of an inhaler. The first clinical report of the sulphate was made in 1935, in the treatment of narcolepsy. In that condition amphetamine might be regarded as specific, large being required for long periods po for the remainder of the patient's life. usefulness of the amphetamines in treatment of epilepsy and post-enceph Parkinsonism were outlined, but in fa and depression it was most marked. I treatment of nocturnal enuresis they by rendering the sleep lighter, the en child being a notoriously heavy sl Dextro-amphetamine, by decreasing appetite and producing a feeling of being, was employed in the treatme obesity, where the condition was d over-eating. No genuine case of add to amphetamine, he said, had bee corded.

DINNER TO MR. MACFARLA

The October meeting of the Dunde Eastern Scottish Branch of the Pharm tical Society took the form of a co mentary dinner in honour of Mr. C Macfarlane, the first Dundee man t come a member of the Society's Co Over eighty members and friends atte



Mr. J. Anderson (one of the oldest bers of the Branch) presented Mr. farlane with a brief case and book t from members in recognition of his services as joint secretary and of his tion to the Council. Dr. D. McCall (tary, Scottish Department) and Mr. Meldrum (president of the Society) tribute to Mr. Macfarlane. Mrs. M lane was presented with a double ro pearls by Miss E. Fyfe (joint secre Messrs. Maconochie, Milne, Pringle, Mrs. F. A. Dale (members of the Br entertained the party. Miss E. M. Je (chairman) presided.

TOPICAL REFLECTIONS

ng Prices

'he unwelcome news of rising prices d in your issue of November 11 (pp. -21, 530) was not quite unexpected. se of us who have any contact with sekeeping have been hearing that many gs, from turkeys to pepper, are reach- prohibitive price levels; and from ds in other spheres comes information certain metals and products made them have attained scarcity values. details given by you last week have doubt been carefully read, for they ate a serious addition to the anxieties resent-day business. Cotton wool, the ct of an article on p. 513, affords a al example of repeated increases in , with the usual consequence for goods into which it enters. We read during the past twelve months or abouts the Raw Cotton Commission announced seventeen such increases, fied by only three reductions, and that ty price changes have occurred in ican qualities in thirteen months. Un- ily, deterioration in qualities is found. ay be argued that wholesale prices always risen and fallen, and that the r who keeps his cost-price index up ate is safeguarded. But the main le is that of explaining to customers frequent rises in price take place— wives are not easily placated in these nstances. The relation between whole- and retailer, though different, is not rom inconvenience.

S. in Northern Ireland

ent events have prevented me from atulating the Northern Ireland Phar- tical Negotiating Committee on the ne of its discussion with the Minis- Health and Local Government on ubject of cuts in payment. As will n from a report on p. 527 of the *D.* of November 11, further matters arisen to call for vigilance. As in parts of the United Kingdom, the bing of large quantities of medica- is giving cause for anxiety, and con- g chemists are in some cases doubt- nether payment for dispensing will ctioned. Supplies to one patient of tance amounting to a total value of r a period of eight weeks seems, at ght, rather on the generous side; course, an entirely satisfactory ex- on of the case may be forthcoming. Malt and cod-liver oil is another preparation apparently handed out as if it were grocery; here, again, explanations will, we read, be sought. Contractors who supply medicines or appliances not definitely ordered by panel prescribers have only themselves to thank if payment for such things is refused. That lesson was taught in Great Britain under the old National Health Insurance system, and will, I expect, soon be equally well known in Northern Ireland. The temptation to be a little too kind to persons bringing N.H.S. prescriptions for dispensing is sometimes strong, but it must be resisted. Failure to resist may bring, by a natural sequel of gossip, further temptations of the same sort.

A Successful Return

The experience of "Septuagint" (pp. 523-24) in taking up dispensing again after an interval of many years should encourage other pharmacists of long experience to do likewise. I have sometimes wondered what happens to the majority of old (or elderly) men when they undertake to act as locums or dispensers — whether they fit easily into the scheme of a selected shop or whether they are classed as misfits. Most of the over-seventies have their strong points and their weak ones. Some are still neat and reasonably quick dispensers and can find their way about the fixtures of a strange shop without much trouble: others are slower and have to husband their resources. Your contributor gives a reassuring account of his adventures in dispensing what was new as well as what was familiar. His observations on the general position of elderly qualified assistants are practical. As I suggested not long ago, more use could be made of their services. Some loss of speed there will inevitably be; but against that must be set the safety arising from having handled many prescriptions. As is well known, the generality of customers like to see an elderly man behind a chemist's counter, even if they do not always want to be served by him. These remarks apply to pharmacists of the other sex so far as the dispensing counter is concerned, though I am not so sure about the position at the serving counter. Possibly it depends to some extent on the type of district and the degree of specialisation in operation at the particular pharmacy.

Xrayser

COMPANY NEWS

British Oxygen Co., Ltd. — Mr. S. J. L. Hardie has resigned as chairman and from the board, and Mr. J. S. Hutchison, previously vice-chairman, has been elected chairman. Messrs. F. C. S. L. Lewin-Harris and John L. Hardie have been appointed directors.

Petrochemicals, Ltd.—The directors have accepted, subject to the approval of shareholders, the terms of an agreement to raise further capital. Under the agreement the Finance Corporation for Industry is to provide up to £2,350,000 in 5 per cent. prior lien loan stock, 1953.

T. J. Smith & Nephew, Ltd.—Mr. L. F. Long has been appointed assistant managing director. The following executives have been appointed to the board:—Mr. Ernest Coulson, works manager; Mr. C. W. Crouch, advertising manager; Mr. A. Lucas, chief of medical division; Mr. S. L. Waide, production manager; and Mr. T. L. Whittaker, general sales manager.

Glaxo Laboratories, Ltd. — Consolidated trading profit for the year ended June 30 amounted to £2,711,511, against £1,960,996 in the previous year, and net profit after taxation, £1,237,085 (£930,247). Trading profit of the parent company amounted to £1,915,922 (£1,273,659) and net profit after taxation, £999,363 (£742,915). The sum of £820,000 (£400,000) is transferred to reserves and provisions; dividend on 7 per cent. "A" preference stock, £19,250 (same); dividend on 8 per cent. preferred ordinary stock, £8,800 (same); interim dividend, 5 per cent. (45 per cent.), £21,900 (£19,710); proposed final dividend, 12½ per cent. (80 per cent.), £54,749 (£35,039), making 17½ per cent. for the year—the corresponding payment in 1949 was equivalent to 12½ per cent. on the increased capital. The balance carried forward is £274,215 (£428,213). At the fifteenth annual general meeting to be held in London on December 5, stockholders are to be asked to consider a proposal to increase the capital to £3,000,000 by the creation of 1,500,000 unclassified shares of £1 each. Sir Harry Jephcott, chairman, in a review accompanying the accounts, states that owing to the continuing expansion of the company's business and to the magnitude of the development programme it may not be possible indefinitely to continue the growth of business from the co pany's present assets though it should clearly understood that there is no pres intention of issuing further capital.

New Companies

International Sponge Import (1950), Ltd.—The directors are Me Lazarus Nidditch, R. C. Long and Ge J. Fox [corrected note].

Morgrowth Scalp Treatment, I (P.C.).—Capital £100. Frank I. Cla director. R.O.: 4 Throgmorton Ave London, E.C.2.

Milrath & Co., Ltd. (P.C.).—Cap £200. To carry on the business of chem and druggists, etc. Hugo Milrath Gustav Baum, directors. R.O.: 2 Holb Place, W.C.1.

Heath (Chemists), Ltd. (P.C.).—C tal £4,000. To carry on the busines wholesale or retail chemists and drugg etc. Sidney Heath and Muriel He directors. R.O.: 393 High Road, Lon E.10.

Aplins (Chemists), Ltd. (P.C. Capital £7,500. To acquire the busi of chemists and druggists carried on Trowbridge, Wilts, as Aplins, Chem etc. John H. Aplin, M.P.S., and Ro J. Aplin, M.P.S., directors.

BUSINESS CHANGES

Thos. Christy & Co., Ltd., have moved to North Lane, Aldershot, H (telephone: Aldershot 773).

Arnold M. Gee, Ltd., have remo to Derwent House, 12 High Street, Col Wood, London, S.W.19 (telephone: erty 8262-3).

Fontaine (Perfumes), Ltd., Ca Bromwich, Warwicks, have appointed F. A. R. Phillips their sales manager f November 1.

The sales departments (home and port) of Monsanto Chemicals, Ltd., wil located as follows from November 20 Allington House, Allington Street, Lon S.W.1 (telephone: Victoria 8131), general chemicals and special produ Victoria Station House, Victoria St London, S.W.1 (telephone: Vict 2255), for plastics, rubber chemicals, pe leum chemicals and Silicon (Orga Developments, Ltd.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

. IAN FRASER asked the Chancellor the Exchequer on November 7 if he uld consider reducing the purchase tax photographic goods. MR. HUGH GAITS-.L: This suggestion, together with ers, will be considered in the next eral review of the purchase tax.

ce Control

/IR. G. R. CHETWYND asked the Presi-t of the Board of Trade whether he ıld impose price control on goods where e increases had been made which were related to increases in the cost of raw erials. MR. BOTTOMLEY: We are ar-ging for a review of the Board of Trade of price control so as to see ther it is advisable to reimpose some he controls which were removed before recent change in the economic climate.

ertised Medicines on Prescription

IR. G. JEGER asked the Minister of lth on November 9, in view of the culties of National Health Service doc-in resisting the demands of patients medicinal preparations advertised t to the public, what steps he proposed ake to deal with this matter. MR. URIN BEVAN replied: Responsibility prescribing should rest solely on judgment of the doctor. Sir Henry en's Committee on Prescribing there-recommended that publicly advertised arations should not be prescribed r the National Health Service. This nmendation has been sent to all doc-who have been asked to observe it, any doctor who refuses importunate nds has my full support.

R. HENRY STRAUSS asked: Is it a fact so far, less than 1 per cent. of pres-ons have been for nationally adver-medicines? MR. BEVAN: No, and if Strauss has got that information and would give me its source, I will be ıted, because I have not got such e information myself. MRS. JEAN N asked whether Mr. Bevan was that many doctors were greatly per-d at the wide latitude allowed to for over-prescribing, and that many protesting, and asking that the old dure, whereby prescriptions were rly scrutinised, should be reintro-. MR. BEVAN believed that was so. lso promised to try to give Mr. Strauss the percentage of nationally advertised preparations prescribed under the N.H.S. if he put the question on the Order Paper.

Streptomycin Production

MR. DODDS-PARKER asked the Minister of Health on November 9 what was the U.K. production of streptomycin during 1949, what amount from this production was exported, and whether he would give similar figures for the first six months of 1950. MR. BEVAN replied: I think that in fairness to the manufacturers, the precise figures should not be disclosed. The rate of production in 1950 is about two-and-a-half times that of 1949, and exports have increased by about 350 per cent.

LEGAL REPORTS

Alleged Forged Prescription.—At Oxford recently Cecil Frederick Price, 11 Thames Street, Oxford, was charged with obtaining from W. C. Price, M.P.S., Oxford, a quantity of pethidine by means of a forged prescription, knowing it to have been forged. He was discharged on condition that he committed no other offence in the next twelve months.

Unauthorised Possession.—At Liverpool city magistrates' court, on October 26, Thomas Edwards, 49 Marmaduke Street, Liverpool, who was accused of being in unauthorised possession of twenty-five tablets of Heptalgin, contrary to the Dangerous Drugs Regulations, and of unlawfully procuring 100 tablets of Heptalgin from a pharmacy, was remanded in custody for a week.

Drugs in Parked Car. — At Solihull magistrates' court recently, Andrew Aloysius Healey, medical practitioner, Newton-le-Willows, Lancs, was summoned for contravening the Dangerous Drug Acts by leaving in a car parked at Elmdon Airport, Birmingham, on July 4, a number of tablets containing morphine. Dr. Healey did not appear in court but pleaded guilty in a telegram to the magistrates. The prosecution stated that the drugs had been found in a dashboard cupboard of the car. The car doors were locked, but one of the windows was open and a policeman was able to gain access to the drugs. Dr. Healey was fined £50 and ordered to pay £11 15s. costs.

DEATHS

Baker.—At his home, 142 Lutterworth Road, Nuneaton, Warwicks, on November 5, Mr. Charles Ballard Baker, Ph.C. (a director of C. B. Baker (Chemist), Ltd., Nuneaton), aged seventy. Mr. Baker qualified as a chemist and druggist in 1902 and as a Pharmaceutical Chemist in the following year. Despite indifferent health recently, he had continued to take an interest in the business, which had been founded by his father.

Buttery.—At 186 South Ealing Road, London, W.5, on November 9, suddenly, Mr. George Richard Roberts Buttery, M.P.S., aged sixty-three. He had been in business on his own account at that address for twenty-two years. Mr. Buttery qualified in 1910.

Edmunds.—On October 21, Mr. Percy Clarke Edmunds, M.P.S., Broad Street, Barry, Glam. Mr. Edmunds qualified as a chemist and druggist in 1909, and was in business in Barry as a chemist and optician.

Evans.—On October 31, Mr. Joshua William Evans, M.P.S., Golden Mortar, Llandyssul, Cardigans, aged eighty-four. Mr. Evans qualified in 1889.

Haley.—On October 29, Mr. Benjamin Pawson Haley, M.P.S., 22 Farnley Road, Menston, nr. Leeds, aged seventy-six. Mr. Haley qualified as a chemist and druggist in 1897 and as a pharmaceutical chemist in 1898.

Holden.—On October 24, Mr. James Lancelot Holden, M.P.S., a partner of Charles Huxtable & Co., 220 Torquay Road, Paignton, Devons, aged seventy. Mr. Holden, who qualified in 1909, had been for many years in business in India.

Hook.—On November 2, Mr. Richard Graves Hook, M.P.S., a director of R. G. Hook, Ltd., Dover Road, Folkestone, aged eighty-three. Mr. Hook qualified in 1889 and was the oldest surviving chemist in Folkestone.

Iddon.—On October 30, Mr. Maxwell Iddon, M.P.S., 91 Bolton Street, Chorley, Lancs, aged forty-eight. Mr. Iddon qualified in 1924.

Lupton. — Recently, Mr. John Henry Lupton, M.P.S., 15 Bootham, York, aged sixty. Mr. Lupton qualified in 1912 and had been secretary of the York Chemists' Association for the past twenty years. He is survived by a widow and two children.

Inkpen. — At his home, 181 Chu Road, Hove, on November 3, Mr. He John William Inkpen, M.P.S., aged si Mr. Inkpen, who qualified in 1911, been in business at Hove for the twenty-five years. He is survived b widow and three sons.

Lyons.—On September 3, Mr. Hy Myer Lyons, 150 Hollyhedge Road, thenshawe, Manchester. Mr. Lyons q fied as a chemist and druggist in 192

Mason. — In Greytown, Natal, S Africa, on October 2, Mr. Peter Ma Formerly of Peebles, Mr. Mason qual in 1899, and later emigrated to Greyt

Pring.—On September 21, Mr. Wil Wallace Pring, M.P.S., Sunnymede, B ley Common, Kent, aged seventy-five. Pring, who qualified in 1898, was s tary of the West Kent Branch of Society from 1923 until 1946.

Remington.—On September 16, Archie Nathanial Remington, M.P.S. Marlborough Court, Pembroke Road, sington, London, W.8, aged thirty-tw

Wilson. — At Riverview, Wilton Hawick, on November 6, Mr. Wil Elliot Wilson, aged eighty-one. Mr. son qualified as a chemist and druggi 1891. He retired from business a nu of years ago and devoted his time t study of Border historical and archæo cal subjects. The funeral was hel Warriston Crematorium, Edinburgh.

WILLS

Mr. S. B. Mason, 8 Springfield Av Harrogate, a director of Timothy W & Taylors, Ltd., Taylors Drug Co., W. B. Cartwright, Ltd., and other a ated companies, left £36,735 (£3 net).

Mr. Ernest Tom Neathero C.B.E., D.L., J.P., F.C.S., Ph.C., Holl Park, Horsham, Sussex, chairmar Savory & Moore, Ltd., and a former dent of the Pharmaceutical Societ Great Britain, left £163,968 (£9 net). He left £350 in 5½ per cent. cu tive preference stock and £500 ord stock in Savory & Moore, Ltd., ea Henry A. R. Russell, secretary and a tor of the company, and to June N house, his personal secretary, and £ to his son Russell.

PERSONALITIES

Mr. Alfred Greenwood, M.P.S., Black-l, suffered injuries as the result of an losion in his pharmacy recently.

Mr. Herbert W. Gamble, the new sident of the Pharmaceutical Society of Northern Ireland, had the distinction of being, when elected to the Council four years ago, the first employee Council-member. Now a director of E. J. Roberts & Co., Ltd., Belfast, he is chairman of the local Pharmaceutical Committee and a pharmaceutical representative on the Northern Ire- General Health Services Board. He founder of the Associates section of Ulster Chemists' Association, in which as held office as chairman and secre- Mr. Gamble qualified as a pharma- ical chemist in Northern Ireland in 2.

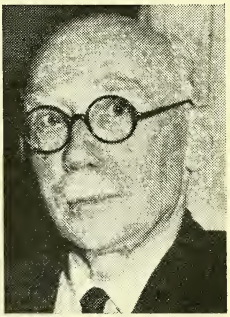
R. William Henry Boyd, the new president of the Pharmaceutical Society of Northern Ireland, has served on the Council for four years, and is a foundation member and past-chairman of the Associates section, Ulster Chemists' Association. He is a director of the Oriel Pharmacy, Ltd., Belfast. Mr. Boyd qualified in 1933, after an apprenticeship with Mr. J. Kilpatrick, S.N.I., Londonderry, Northern Ireland.

R. Hugh B. Dunn, Eglinton Toll, gow, flew to Rome recently to give a re on the National Health Service.

R. R. Goode, M.P.S., F.C.S., D.Opt., been elected president of the Institute ptical Science for the coming year. In ice as a chemist and optician in dstone, Middlesex, for the past sixteen years, he has been vice-chairman of the Harrow Branches of the Pharmaceutical Society and National Pharmaceutical Union. He is a member of the Central Professional Committee for Opticians (National Health Service), and of the Whitley Council for the optical profession. Apart from his professional activities his interests are devoted to ancient history, particularly Egyptology.

The Nobel 1950 prize for chemistry has been awarded jointly to Emeritus Professor Otto Diels, of Kiel University, and his former assistant, Kurt Alder, now a professor at Cologne University.

Dr. Angus Macrae, the newly appointed secretary of the British Medical Association, is a graduate in medicine of Edinburgh University, and has been on the staff of the Association since 1935 as assistant secretary, and since 1948 as deputy secretary. He succeeds Dr. Charles Hill, M.P., who resigned recently because of pressure of Parliamentary work.



Mr. Wilford Smith, Moultrie Road, Rugby, who for over thirty years has been in business in Rugby, has retired from active participation in the business and is going to live at Bexhill, Sussex. A native of Ilkeston, Mr. Smith went to Rugby in 1920 and bought the business in Church Street then owned by Mr. L. Pollock. He also retired. The business in Church Street was turned into a limited company (Wilford Smith (Chemists), Ltd.) about six years ago.

Councillor H. Jones, M.P.S., Crowland, Lincs, has been appointed a justice of the peace for the county of Lincs (Holland). Mr. Jones is a member of the Holland county council and serves on several committees. He was recently appointed to represent the county council on the Lincs (Holland) Executive Committee. He is also on the board of governors of Spalding Grammar School, and during the 1939-45 war was head of the Crowland civil defence organisation.

TRADE NOTES

Price Changes.—The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, and Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce increased prices for ergometrine maleate products from November 1.

Subject to Tax.—Roussel Laboratories, Ltd., 4 Golden Square, London, W.1, announce that Hemostyl normal horse serum for oral administration is subject to purchase tax at 33⅓ per cent.

Change of Name.—Riddell Products, Ltd., Axtell House, Warwick Street, London, W.1, announce that their Jerrofan inhalers and inhalant will in future be known as Riddofan.

Five-day Week. — Ciba Laboratories, Ltd., Horsham, Sussex, are adopting a five-day week from November 20. Chemists are accordingly asked to note that their offices and works will be closed on Saturday mornings from that date.

Coty Soaps Return.—Coty (England), Ltd., Coty House, 3 Stratford Place, London, W.1, are now marketing again in this country their toilet and bath soap tablets in Paris, Emeraude, Chypre, Lavender, l'Origan and l'Aimant perfumes.

Now Available in Britain.—Pond's Extract Co., Ltd., Perivale, Middlesex, are now marketing Pond's talcum powder in this country; for some time it has been available in export markets. The product is packed in attractive green and white sprinkler-topped canisters.

Change of Pack. — Hinds honey and almond cream is being issued by the manufacturers, A. S. Hinds, Ltd., London, S.W.20, in a "new look" plastic bottle. The distinctive shape is unchanged but the new container is much lighter in weight. The new "squeeze" bottle can be easily refilled from a standard bottle.

Change of Policy.—The nationally advertised mail-order business of Dr. Janssen, Ltd., 37B New Cavendish Street, W.1, which has previously distributed through both mail order and trade channels, is now to sell entirely through retail outlets [corrected note]. The company also announce on another page the appointment of distributors.

Photographic Year-book.—The 1951 edition of the Johnson Wellcome Year Book is now available. Technical information has been confined this year to practical aspects of taking photographs rather than to c room technique, and several new cha have been added on the subject. pages for recording exposures have increased in number.

High-dosage Cachets.—Antigen La atories, Ltd., 95 Great Portland St London, W.1, have introduced a high age cachet of para-amino-salicylic containing 2 gm. sodium P.A.S. They simultaneously reduced the price of 1.5-gm. cachets. Manufactured ent in England, the company's brand of um P.A.S. is available in bottles of 500 and 1 kilo.

Additions to Range.—The Crookes boratories, Ltd., Park Royal, Lon N.W.10, announce the introduction of new forms of Neo-ferrum colloidal f hydroxide:—Neo-ferrum-infants (to f tate dosage for infants up to twelve mo old) in ½-oz. bottle with pipette; and ferrum (intravenous), a solution of sac ated iron oxide, sterilised and standar to contain 2 per cent. elemental iro box of six 5-c.c. ampoules.

Change of Carton. —Howard Lloyd & Co., Ltd., Leicester, announce that both sizes of Lloyd's adrenaline cream are now being dispatched in a new and distinctive carton, as illustrated. The price is shown clearly on the pack.

Rayon/elastic Bandage.—The rec published N.H.S. (General Medical Pharmaceutical Services) Amendment 2) Regulations, 1950, includes "rayon/ tic bandage" among appliances that be prescribed on E.C.10 forms. It is u stood the item was included to pr against a growing shortage and rising p of cotton and wool. Rayolast band issued by Harker Stagg, Ltd., En Street, London, E.1, conform with specification, and chemists are advise the makers to have stocks on han December 1, when the regulation effect.

New Medical Products.—Pharma cal Specialities (May & Baker), Ltd., enham, announce the introduction of mine brand promezathine-8-chlorothe

te (which is subject to Part 1 and edules 1 and 4 of the Poisons Rules), the symptomatic control of nausea and iiting, especially in travel sickness. Avo- e is available in containers of ten 25- n. tablets. Messrs. May & Baker have introduced Cuprimyl brand cuproxo- as an alternative to gold compounds he treatment of rheumatoid arthritis certain other rheumatic conditions. rimyl is given by deep intramuscular ction. It is supplied as an injectable ion in packs of ten 5-c.c. ampoules, containing 0.5 gm. cuproxoline and ngm. procaine hydrochloride.

Bonuses in Slogan Competition. — In a competition organised by Lever Bros., Ltd., London, prizes amounting to £1,755 to winners and twenty-four bonuses of £5 each to dealers are being awarded. Customers buy a Lever's Easy shaving-stick and send in the transparent wrapper with a completed entry form on which there is a space for the dealer's name and address. The bonuses are awarded to dealers who sell shaving sticks to the first, second and third prizewinners. In addition, up to 180 prizes of £1 vouchers for spending in dealers' shops will be awarded to next best entries.

NEW PRODUCTS AND PACKS

ow in Carton.—The Dinneford's fluid nesia bottle as now issued is contained blue-and-white carton that is "good display, good for handling." Orders inquiries should be sent to the sole ibutors: J. C. Eno, Ltd., Watford, s. *Scotland:* Donald Macaulay, Ltd., King Street, Glasgow, C.1. *Northern nd:* Robert Mayrs & Co., Ltd., 54 oria Street, Belfast.

rgical Glove Lubricants. — The cri- for an acceptable substitute for talc lubricant for surgical rubber gloves enumerated in the "British Medi- ournal" in 1948. BAKER RESEARCH RATORIES, LTD., Mary Street, Lon- E.16, state that those criteria have closely followed in their product ol, a fine white powder unaffected ormal methods of sterilisation, with- leleterious effect on the life of rubber s and not producing glove adhesion, ant to use, non-toxic, and, in animal iments so far carried out, shown to ompletely absorbed from the perito- cavity without the formation of adhesions.—BOOTS PURE DRUG CO., LTD., Nottingham, announce the introduction of prepared starch powder K285 to meet the need for a substitute for talc as a lubricant for surgeons' gloves. (The use of talc involves the risk of post-operative adhesions from formation of siliceous granuloma.) K285 is absorbed by the tissues. Unlike ordinary starch, it may be sterilised in an autoclave without forming a gel and losing its lubricity. The product is supplied in 1-lb., 7-lb., 14-lb., and 28-lb. tins.

Triple Sulphonamides. — Sharp & Dohme, Ltd., West Hill Laboratories, Hoddesdon, Herts, announce the introduction of Cremotresamide and of Tresamide tablets. Cremotresamide is a triple sulphonamide suspension issued in 4-oz. and 16-oz. bottles. Tresamide tablets (0.5-gm.), triple sulphonamide tablets, are issued in bottles of 100 and 500 tablets. Cremotresamide, a further member of the company's series of palatable sulphonamide suspensions, combines sulphamerazine, sulphadiazine and sulphacetamide in a palatable preparation.

Composite in transparent plastic containing Helena Rubenstein "Atomised" silk cosmetics by Rubenstein, Ltd. (see C & D., October 14, p. 442). Centre: Angel Face powder compact and by Pond's Extract Co., Ltd. Right: Display stand for Damaskin products by Colloidal Chemists, Ltd.

WOLVERHAMPTON ASSOCIATION'S JUBILEE

THE Wolverhampton and District Chemists' Association celebrates this year its fiftieth anniversary. The present Association was formed at a meeting held at the Star and Garter Hotel, Wolverhampton, on January 29, 1900. The first members were twenty-four pharmacists who had attended a previous meeting called by the late Mr. F. J. Gibson on November 27, 1899. The first officers were:—*President,* Mr. F. J. Gibson; *Vice-president,* Mr. S. Phillips; *Treasurer,* Mr. H. E. Cullwick; *Secretary,* Mr. H. E. Coleman. There had been a previous society but meetings had been infrequent and poorly attended, and the organisation had failed to survive.

An Eye on Craft Problems

The Association has always been alive to pharmaceutical problems. Half a century ago there was no National Pharmaceutical Union, nor any branches of the Pharmaceutical Society to deal with the questions of the day. Locally, the Association gave an eye to such matters on behalf of the craft. When the occasion arose, the Association acted with vigour, all its members doing their share in writing to

The Association's first president (Mr. F. R. Gibson) and the Jubilee year president (Mr. D. A. Rimmer).

and interviewing their Members of Parliament, etc. Throughout its existence meetings of the Association have produced some good discussions. Interesting papers, on all manner of subjects have been given by members. One of its members (Mr. L. J. Reade) was responsible for establishing a botanical garden in the local West Park.

The first social event was a smoking-concert held at the Star and Garter Hotel on March 29, 1900. Nearly eight years elapsed before the first annual dinner held (on January 9, 1908). The g included the president of the North S Association, and Mr. Rymer Youn member of the Association and presi of the Pharmaceutical Society. Two c members of the Association, Alderma Cross, J.P., and the first president, F. J. Gibson, have secured election to Society's Council. Another distingui member was Mr. A. Bird (later Sir A Bird), who was elected in 1910.

The first annual outing was to Ha stone Park on July 25, 1903, when twe three members attended. Since then annual outing has been a feature of c sessional programme—even during the years.

Many attempts were made to pers the Association to affiliate to the Chamber of Commerce, and in April the mayor (Councillor C. T. Rich gave members a lecture on the sub representing that it would have m support for members in their attitu the Pharmacy Bill, but not until 19, 1920, was membership taken up. first meeting at the Chamber of C merce was on May 19, 1920, and M C. M. Warner and the late S. Ph were first representatives of the Ass tion on the retail section.

Support for Benevolent Fund

The Association has always given s support to the Pharmaceutical Soc Benevolent Fund and the Wolverham Branch of the Pharmaceutical Society the first Branch to oust Cheltenham the head of the list of subscribers (per capita basis). In doing so, it se standard of subscriptions at a higher In 1949, Wolverhampton Branch headed the list, having subscribed 37s per head. Considerable help has bee ceived from the Press, particularly the Editor of THE CHEMIST AND DRUG who provided reprints of Draft Bills, also from the local "Express and S in the early days, when they reported Association's meetings verbatim. In days the Cocoa Hall—a favourite ven was hired at a charge of 1s. 6d. per n The fee for proprietor members of Association at its foundation was 5s., it was necessary to put it up to 7s. 6 1923, and at that figure it has rema ever since.

OCIATION GROUP: Seated: Messrs. R. T. Blenkinsop (immediate past president), D. A. Rimmer esident), J. Foster Taylor (vice-president). Standing: Messrs. Webster, Flemming, Dyson, Walton, dman, Warner, Mansel, Lancaster, Asbury, Baker, Frost, Lewis, Careless, Shelley, Whick, Richardson Miss P. Cooper.

No record of the Association would be nplete without mention of its energetic retaries. The first, Mr. J. H. Coleman 00-21), resigning in the latter year ough pressure of public duties, his ce was taken by the late Mr. S. Phil-, who resigned in 1937 owing to health. Incidentally, Alderman J. H. leman is the only remaining founder mber. The late Councillor A. E. Mar- was an active member until public rk prevented his regular attendance. e yeoman service of Mr. George Pirie, sident during the trying war years, is nowledged by his colleagues.

In connection with the celebrations Association held a dinner and dance October 26. The event was attended by members and friends, including repre- tatives of allied professions. Among se present was Alderman J. H. Coleman, association's only surviving founder mber, and the first secretary (1900-21). he Association" was proposed by Mr. D. Whiteaker (editor, the Wolverhamp- "Express and Star"), and the "Phar- ceutical Society" by the mayor of Wol- hampton (Councillor L. R. Guy) who d that without the goodwill and co- eration of chemists the National Health vice would have broken down; he ped the Government would act quickly effect the economies that were neces- y. Mr. A. A. Meldrum (president, armaceutical Society), who responded, reed that the Service required immediate reorganisation. The Society's Council, he said, was concerned about reorganising pharmacy to meet the changing needs of N.H.S., while anticipating future requirements. Other speakers were Mr. H. Noble (secretary, National Pharmaceutical Union) and Mr. H. Howard Jones (a committee member). Mr. D. A. Rimmer who was in the chair proposed "Our Guests."

PHARMACY UNDER N.H.S.

At a meeting of the Leicester Branch of the Pharmaceutical Society recently Dr. H. Davis (Chief Pharmacist, Ministry of Health) gave an address on "Some Technical Aspects of the Pharmaceutical Services." Pill-making and plaster-spreading, he said, had almost disappeared, and the pharmacist should consider whether his dispensary was adequately equipped for dispensing sterile materials. There were arguments both for and against proprietary preparations. While many extemporaneously prepared mixtures contained no preservative, might throw down an unsightly deposit, and were not subjected to analytical control, proprietary liquid preparations were usually stable and of good appearance. Medical treatment had undergone "more than a minor revolution" during the past twenty years, and it behoved the pharmacist to change, too. An intelligent knowledge of the drugs he dispenses was a fair exchange for some of the pharmaceutical operations on which he used to pride himself.

CHEMISTS' GOLF

In the annual golf competitions organised by the Association of British Pharmaceutical Industry and held recently, the Bowman cup was won by Mr. R. F. Ransom; the Morson trophy (for the second successive year) by Mr. E. D. Nadin; and the Victorian trophy by Mr. G. T. Morson.

Edinburgh

At the Edinburgh Chemists' Golf Club's annual dinner and presentation of prizes recently, Mr. J. B. Grosset in the chair, the toast of the Club was proposed by Dr. G. H. MacMorran (assistant resident secretary of the Pharmaceutical Society in Scotland). Principal prizewinners were:—Club champion, Mr. W. G. Herd; runner-up, Mr. H. Semple; Edinburgh Chemists' trophy, Messrs. J. Liddell and W. E. Herd; Pinkerton Gibson trophy, Messrs. W. E. Herd and D. Finlay; T. & H. Smith trophy, Messrs. J. W. Upton and R. S. Mathison; Rainy Brown medal, J. B. McCaig.

Dublin

The final outing of the season and annual dinner of the Irish Chemists' Golfing Society were held recently at the Hermitage Golf Club, co. Dublin. In the afternoon, play was for prizes presented by M. G. Baynes & Co., Ltd., and Goya, Ltd. The winner of the strokes competition was Dr. F. J. Keelaghan, M.P.S.I., with Mr. J. P. Kissane (vice-president of the Pharmaceutical Society of Ireland) as runner-up. The winner of the bogey competition was Mr. J. A. Hurson, with Mr. F. J. Roche as runner-up. Later, at the club-house, a large and representative company sat down to dinner. The guests included Messrs. J. P. Kissane, David Woulffe (president, Irish Drug Association), M. G. Baynes, D. Mangakis (Goya, Ltd.) and Harry Boyd (Ulster Chemists' Golfing Association). A vote of thanks to Messrs. Baynes and Goya was proposed by Dr. Keelaghan, and seconded by Mr. Kissane. Mr. Mangakis (Goya, Ltd.) and Mr. Michael Baynes replied for the donors of prizes.

Belfast

The captain's prize competition of the Ulster Chemists' Golfing Association held at the Belvoir Park Golf Club, Belfast, on September 27 was won by Mr. N. Hogg, with Mr. B. Flatley second and Mr. J. McNeill third. The visitors' prizes w won by Messrs. P. Starkey and J. Dohe Following dinner the annual general m ing was held, presided over by the cap (Mr. Hugh Rankin), to whom a vote thanks was passed on the motion of W. McCutcheon, seconded by Mr. Guiler. Mr. Guiler presented Mr. Ra with a replica of the British Drug Ho cup, a trophy won earlier in the seasor the Association. Mr. H. McRoberts elected *Captain* for 1951 on the prop of Mr. Rankin, seconded by Mr. F. McMullan. Messrs. W. H. Boyd and Hall were appointed *Secretary* and *Tr urer* respectively and the Committee re-elected. Mr. A Steede proposed the t of the guests which was responded to Mr. J. Caldwell (president, Ulster Ch ists' Association).

Manchester

The end-of-the-season match of the M chester Pharmaceutical Golfing Society played at Northenden Golf Club recer when the president's team defeated captain's team. After dinner, the presic (Mr. T. Miller) presented the prizes during the season as follows:—Capta prize, Messrs. H. Roberts and W. Stan Hough, Hoseason & Co., Ltd., pr Messrs. H. Ogden and S. Garside; Grifl Hughes prize, Messrs. E. McIntosh E. Rothwell; Ucal trophy and pr Messrs. H. O. Coham and P. Wynne; F foot trophy and prize, Messrs. T. Willia jun. and C. Malthouse; Woolley tro and replica, Messrs. A. D. Macdonald S. Haywood; Robinson prizes, (1) Mes T. Williams, jun. and T. Williams, (2) Messrs. H. Heavers and B. Ander The captain (Mr. J. Taylor) and the se tary (Mr. W. E. Phillipson) were than for their services during the year.

Indications of Character.—It's only few weeks now before George, my psyc logist friend, completes his paper on *P sonality Traits as Revealed by Urine* . . First there's the kind of bottle in wh the specimen arrives—orange juice conta ers from the ante-natals, milk bottles fr the housewife, and beer bottles from husband . . . . Then there are the additi mostly accidental but some purposive; purist added a few drops of Dettol, that it wouldn't go bad, doctor.—*A p patetic correspondent in the "Lancet."*

JUBILEE BANQUET IN DUBLIN

e Prime Minister of Ireland, the Lord Mayor of Dublin, representatives Irish pharmacy, medicine and veterinary medicine, of Northern Ireland d British pharmacy attended the seventy-fifth anniversary celebrations of the Pharmaceutical Society of Ireland held in Dublin recently

E jubilee banquet of the Pharmaceuti- Society of Ireland was held in Dublin ing October to commemorate the enty-fifth anniversary of the Society's nding. It was attended by, among ers, the Prime Minister (Mr. John A. tello), the presidents of the Pharmaceu- l Societies of Great Britain (Mr. A. A. ldrum), and Northern Ireland (Mr. R. W. Shinner), the president of the al College of Physicians of Ireland . Leonard Abrahamson), the Lord yor of Dublin, and the president of the h Medical Association (Dr. P. T. arrell). The menu ("Index Ciborum") been produced entirely in Latin, with able admonitions given with each rse, by the Society's registrar (Mr. es G. Coleman). The artistes who con- uted to the musical programme in- ded Mr. Hugh P. Corrigan (a member Council).

he toast "Ireland" was given by MR. N P. KISSANE. THE PRIME MINISTER, roposing "The Pharmaceutical Society reland," congratulated the Society on excellent record "for a profession so uliarly open to actions for negligence." ead of celebrating their seventy-fifth iversary he felt that the pharmacists ld be celebrating their one-hundred- -fiftieth anniversary since legislation passed by an Irish Parliament in 1791 egulate the practice of "the art and tery of the apothecary," and to protect is Majesty's subjects within the City Dublin" against "the ignorance and ilfulness of divers persons pretending he art and skill of the apothecary."

Great Tradition"

he Society had upheld the dignity of pharmaceutical chemist since its incep- and had built up a great tradition for profession. Like many other profes- s today, pharmacists were subject to impact of mass production and mono- es, but there would always be a place he community for the professional skill e pharmacist.

The Society's PRESIDENT, who responded, said it was a great honour to have the toast proposed by the head of the Government. It was also a source of gratification to have present leaders of the medical and kindred professions, the first citizen of Dublin, and the presidents of sister Societies in Great Britain and Northern Ireland. Revolutionary and progressive changes had taken place in the practice of medicine and pharmacy since the Society was founded and during all those years the Society, without State aid, had carried on the dual functions of an educating and examining body, while at the same time administering in the public interest and welfare the provisions of the pharmacy and poisons law. "Our Society," THE PRESIDENT added, "is trying to function under the handicap of outmoded legislation, framed to meet conditions very different from those obtaining today."

New Pharmacy Act Needed

"Unlike us, the Pharmaceutical Societies of Great Britain and Northern Ireland are operating under recent pharmacy legislation, designed to meet the problems created by modern conditions. Today, when we are celebrating seventy-five years of existence under that first Pharmacy Act, we are naturally filled with the hope that our own legislature—in the not distant future—will see the need for a new Pharmacy Act which will give us powers to match twentieth-century needs." The president said that the best pharmaceutical service could be achieved "only by utilising the great body of pharmaceutical chemists who, by training and tradition, are the only people capable of providing first-class compounding and dispensing." If in the vital times ahead the State truly valued the worth of the young people now qualifying as pharmacists—and those already in practice—"one can visualise in the quarter of a century before us still more resplendent and happy days for this venerable Society, to which we are all proud to belong."

The toast of "The Medical Profession" was proposed by Mr. P. A. Brady (immediate past-president of the Society) who said that chemists were fully cognisant of the high standard the profession had set itself. With the toast he coupled the veterinary profession, which was represented by Mr. John Flynn.

A Dead Art

Dr. Abrahamson (president, Royal College of Physicians) replied. He said he admired the calmness and apparent prosperity of his audience. The link between the chemists and the doctors would be even closer if the art of prescribing had not died. As one-time professor of pharmacology, he greatly deplored the absence of prescription writing. Too many preparations were being issued by the manufacturing chemists, and there were far too many manufacturing chemists. He did not wish to imply that all manufacturers were useless. Drug manufacturing concerns had produced the finest drugs in use in modern medicine. He suggested that there should be an all-night service in Dublin for emergency medicines.

Dr. P. T. O'Farrell, also responding, hoped that as a result of that function there would be a still closer *rapprochement* between the professions of medicine and pharmacy.

Proposing "Our Guests" first in Irish, and then in English, Mr. P. C. Cahill paid tribute to many distinguished guests present. It was twenty-one years, he said, since they had had a visit from the president of the Pharmaceutical Society of Great Britain. They welcomed also Mr. Shinner, the president of the "Northern Society" and a licentiate of their own.

Pharmacy in the Nation's Life

The Lord Mayor, responding, said he was sure pharmacy would continue to play as important a part in the life of Ireland in the future as it had done in the previous seventy-five years. Mr. A. A. Meldrum, who followed, said that it was a pleasure to him to see pharmacy so highly thought of in Ireland. The Society in Britain, as there, was going through a testing time because of the rapid and great development in antibiotics and "ethical" preparations, and it was only by extending and modernising their educational programmes, coupled with a high ethical code, that they could meet those advances. Mr. Shinner said he was proud to be a licentiate of the Society; every president of the North Society, with one exception, was a gra ate of Dublin.

Science Session in Dublin

In connection with the celebratio Science Session was held at Univer College, Dublin, at which papers w read by Mr. R. F. Timoney, B.Sc., M.P.S and Mr. Christopher S. O'Connor, M.P. Dr. Vincent Barry, D.Sc., F.I.C.I., F.R. presided. The paper read by Mr. Timo was:—

Sterility Tests in Pharmacy

[Abstract]

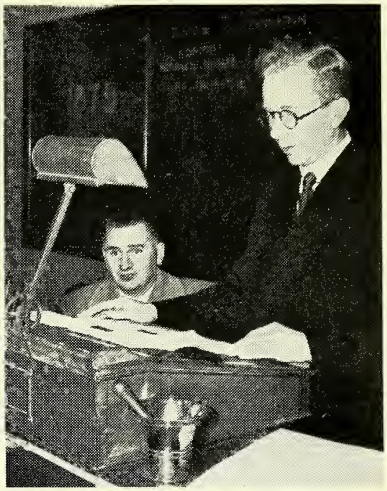
The importance of sterility tests has gro with the increase in the number of dr and preparations administered by pa teral injection. Sterility tests function reliable indicators as to whether adequ precautions are being taken to gu against bacterial contamination. principle of testing is to mix the mate under test with a suitable culture medi which provides nutrition and moisture the bacteria, and to keep the mixture 37°C for five days. Any bacteria pres will grow and show their presence by appearance of turbidity in the mixtu

Three Techniques in Use

Three techniques are in use in steri control.

(1) The dilution method; (2) the inh tor method; and (3) the filtration meth Both aerobic and anaerobic tests are c ried out using a special medium for ea In the dilution method the solution of drug under test is added to approxima ten times the volume of nutrient medi (for both aerobic and anaerobic tests). the same time control tests are carried to assure that the culture media are ster and that the media will permit the grov of organisms under the conditions of test. The inhibitor method was devi for drugs that have a bactericidal acti or for use where an added bactericide present. Before testing, a substance added which destroys the bacterici action of the drug or added bacterici For example, *p*-aminobenzoic acid is adc to sulphonamide compounds to inactiv the bactericidal action of sulphonami The filtration method was evolved by Da and Fishburn to eliminate interference d to the bacteriostatic action of the dr or bactericide. In comparative tests th showed that the filtration method is mo

ensitive than the dilution technique n detecting con- amination by dry rganisms, and that t also has the d v a n tage that omplete data on he bacteriostatic ction of the drug nder test do not eed to be ac- uired; hence, ex- ept for sparingly- oluble drugs, there no limit to e amount of sam- le that can be sed for a normal uantity of broth. Mr. O'Connor's aper was:—



Left: Mr. C. O'Connor. Right: Mr. R. F. Timoney. In the chair: Dr. Vincent Barry.

Cultivation and Collection of Medicine Plants in Ireland

[ABSTRACT]

HE practice of herb cultivation is almost lost art in Ireland, with the result that e country is losing a valuable source of evenue. Many plants cultivated for their edicinal properties along the shores of e Mediterranean are found growing wild Ireland. Among the better known being elladonna, colchicum, stramonium and yoscyamus. Belladonna, though not as lentiful as in England, flourishes (despite e efforts of the inhabitants to eradicate on Coney Island in the Shannon below ildysart, in co. Clare. I have found ecimens to contain 0.81 per cent. of yoscyamine, which is exceptionally high. t Leixlip, about five acres are under bella- onna, and in the past four years the an- ysis has never fallen below 0.5 per cent. erb gardens were attached to monasteries ancient Ireland and the monks made e of them extensively to heal the sick d relieve pain. There are possibilities in eland for growing of oil-bearing plants ch as peppermint, lavender and spear- int. I have grown peppermint at Leix- and carried out an experimental distil- tion of the oil. The result was encour- ing as to quality of product. The bog- pe land, especially reclaimed land near ater, would produce oil second to none the world, and it should be remembered at the residue left over after distillation akes a valuable cattle food. Other in- resting indigenous plants are *Artemisia maritima*,, bogbean or buckbean, comfrey, sundew and butterbur. Chemists and students could give great practical help in any campaign for the cultivation and collection of medicinal plants.

IRISH NEWS

Irish Drug Association.—At recent meetings of the Committee of the Irish Drug Association, members have been requested to ignore price lists that set out prices lower than those in the Association's list and recommended to ignore newspaper correspondence likely to incite controversy.

Chemists' Gaelic Sports. — At the annual meeting of the Chemists' Camogie Club held recently at the College of Pharmacy, Dublin, the following officers were elected:—*Captain,* Miss Joan McNulty; *vice-captain,* Miss N. Daly; *Secretary,* Miss K. Noonan; *Treasurer,* Miss McDermott.

Benevolent Fund Dance Fixture.—The dance in aid of the Benevolent Fund of the Pharmaceutical Society of Ireland will be held at the Gresham Hotel on December 5. Tickets are £1 1s. each and early application should be made and tables booked at the hotel. Since the receipts from this annual dance are the most important contribution to the Fund each year, all in pharmacy should give their generous support, and those who cannot attend may send a subscription towards the dance expenses to the treasurers, Misses E. Smith and C. Gaffney, 67 Lower Mount Street, Dublin.

SEVENTY-FIFTH ANNIVERSARY DINNER

1. The president m
T. C. Scott) rec
the Prime Minister
Mrs. Costello.
2. From Great Br
Mr. A. A. Meldrum
3. Lord Mayor of
lin (his first p
function).
4. From N. Ire
Mr. P. R. W. Shi
5. Mr. P. C. Cahill
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6. The Prime Mi
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7 and 8. Medicine
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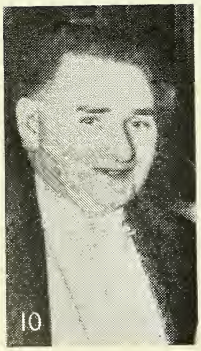
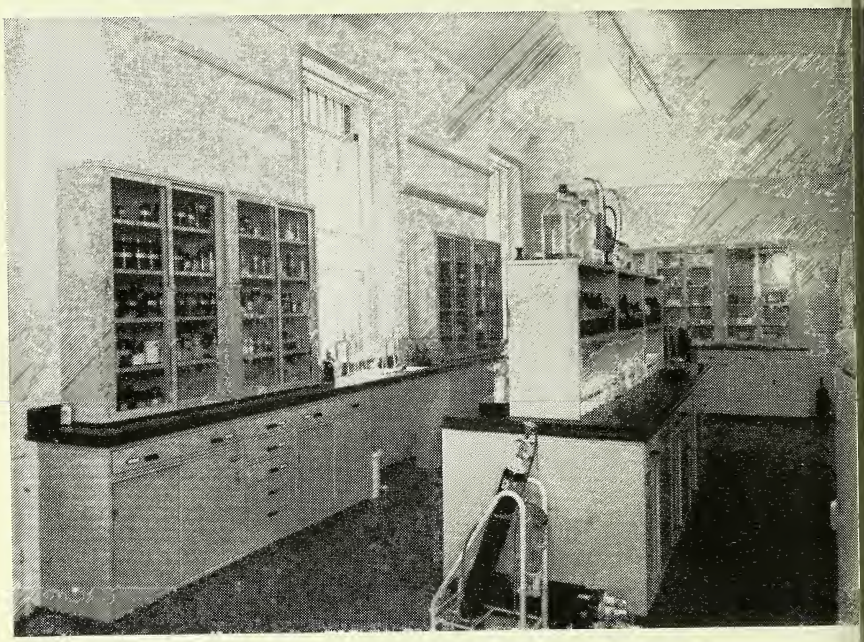


PHARMACEUTICAL SOCIETY of IRELAND

year's presi-
P. A. Brady.
president: Mr.
iane.
mes Ashe (on
since 1897),
Tate (Dub-
ersity) and
Walsh.
Northern Ire-
r. H. W.
ice-president,
tical Society
ern Ireland),
W. Shinner
), with Mrs.
Mr. Fred
others.
Lang Syne.

A CENTURY FORWARD FROM "COLNEY HATCH"



Friern Hospital in its Centenary Year

WHEN, in 1850, the Justices of Middlesex erected, on a 140-acre site at Colney Hatch, Friern Barnet, a hospital "for the maintenance and care of pauper lunatics," the ideas upon care of such patients were different in important respects from those that obtain today. A sharp acceleration in the pace of change followed the coming into force of the National Health Service Act, 1946.

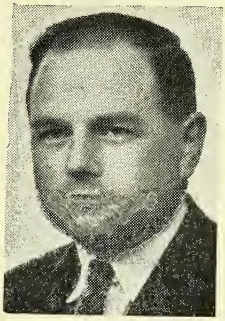
One beneficiary of the change-over to N.H.S. has been the pharmacy department of the hospital. Given new quarters, comprising a large rectangular hall with smaller rooms off for office, aseptic dispensary, store-rooms, manufacturing laboratory, etc., the pharmacist (Mr. A. M. Jack, M.P.S.), reorganised the department on general hospital lines. The resulting unit would command the envy of many a metropolitan hospital pharmacist for its spaciousness, orderly arrangement and amenities. Mr. Jack and his staff prepare all aseptic preparations used in the hospital, and all medicines required for the occupants of the 500 infirmary beds, in addition to sedatives for the 2,500 mental pati Every patient has his or her medical re card, and new entries may come to over 500 items in the course of a w For the whole of the year the total of scriptions is around 75,000. The p macist is personally reponsible for bu all the needs of his department, plus requirements of the pathological and de laboratories and *x*-ray department.

Today at Friern Hospital the med staff includes fifteen full-time medical cers and twelve visiting consult Records show that in 1852 the resi medical officers were two in number there was one dispenser. A report by Commissioners in Lunacy about that suggests that one method, sponsored them, of "allaying mental exciteme was active and extended exercise, but of the Medical Superintendents in the pital held the view that "insanity is expression of cerebral disease . . . there is no error more fatal than that disease may be resolved into a moral version, or mere mental excitement."

ANGLO-AMERICAN PRODUCTIVITY TEAM

ONSORED by the Association of British emical Manufacturers, the Association British Pharmaceutical Industry, and Association of emical and ied Employers, pharmaceutical m left Britain November 1 to dy methods of arm aceutical nufacturers in United States. e tour is one of se arranged by Anglo-Ameri- Council of ductivity under technical assist- e provisions of Marshall Plan. team will nd five to six ks in the Uni- States. The members rep- ent manage- nt, technicians workpeople. he team leader Mr. H. G. LFE, B.Sc., I.C., Ph.C. (a ctor of The ish Drug Hou- Ltd.). A ira medallist, , Mr. Rolfe ified as a Phar- eutical Che- in that year, d graduated a demonstra- in pharmaceu- chemistry at then Pharma- cal Society's ge. He is a ber of the h Pharmaceu- Codex Revi- Committee, was appointed 947 as a joint tary of the h Pharmaceutical Conference.

Mr. W. C. J. Coughtrey



Mr. R. E. Lewis

Mr. L. G. Murphy

Mr. G. R. Page

Mr. H. G. Rolfe

Mr. W. A. Woodard

R. W. C. J. COUGHTREY, B.A. (Oxon.), (Oxon.), has been production mana- at the Greenford factory of Glaxo Laboratories, Ltd. His B.Sc. was a research degree. Mr. Coughtrey was formerly with Lever Bros., Ltd., rising to become manager of five production departments.

MR. G. R. PAGE, B.Sc., A.R.I.C., Ph.C., is manager of the pharmaceutical laboratories of Evans Medical Supplies, Ltd., Speke, Liverpool, 19. He joined the company in 1932, and has held his present post since 1941. After qualifying as a Pharmaceutical Chemist in 1933, Mr. Page worked for a time as a research assistant to the British Pharmacopœia Commission.

The technicians' representatives include Messrs. JAMES BRENNAN, Ph.C. (superintendent in charge of pharmaceutical processing, Imperial Chemical Industries, Ltd.); H. SMITH (a draughtsman section leader with the same company); R. E. LEWIS (team secretary, manager of the production control department, Evans Medical Supplies, Ltd.); L. G. MURPHY, Ph.C. (a pharmacist at the Wellcome Chemical Works, Dartford, Kent, of Burroughs Wellcome & Co.) and W. A. WOODARD, M.P.S. (head of pharmacy unit (Greenford Division), Glaxo Laboratories, Ltd.). Trade-union representatives are MESSRS. W. LEDSHAM and W. IRVING.

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The next examination will be held at Stockport on December 11th, 12th, 13th and 14th; the last date of entry is Saturday, 11th November. Entrance Forms for Fellowship, Honours, Contact Lens Examinations, etc., may be had from: The Sec., N.A.O., 8 Victoria St., Liverpool, 2.

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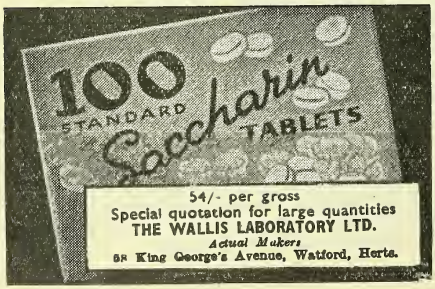

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cial organ of The Pharmaceutical ety of Ireland, The Pharmaceutical ety of Northern Ireland, The Chemists' Druggists' Society of Ireland and of r Chemists' Societies in the Empire.
. CLIV NOVEMBER 18, 1950 No. 3691

emical Engineering as a Study

IGNIFICANT fact brought out by the nical Personnel Committee in its re- issued recently, to the Minister of our and National Service is that some oyers (and " by no means the smallest least influential ") prefer chemical neering to be carried out by men who been trained as chemists or engineers have developed into chemical engineers e course of their employment. The mittee favours a specialist class of ical engineers having degrees or a graduate or equivalent qualification e subject.

e point has some bearing in pharmacy pharmaceutical education since, while maceutical education is almost cer- one of those fields in which the eering has to a large extent been in hands of persons trained either in macy (or chemistry) or in engineering not both, a difference of viewpoint among teachers of pharmacy on how ubject should be regarded. While in chool at least a pharmaceutical engin- laboratory is being installed, at s the subject is excluded as being a r for the specialist chemical engineer visaged by Lord Hankey and his nittee.

1954 the annual out-turn of trained cal engineers (202) is estimated to e double that for 1949, yet still to hort of the demand, so far as it can essed in face of the circumstances as bed. In view of the expected defici- -whatever its extent—the Committee urges the training of a greater number of chemical engineers from universities and technical colleges, and as a long-term policy advises the building of " strong chemical engineering departments in the Universities." The present wide variety of courses meets with the Committee's approval as facilitating the provision of the right occupant for any particular post. Within that wide variety, of course, not the least important aspect of specialist study is pharmaceutical engineering.

As the policy advocated tends more and more to reduce the shortage of trained chemical engineers, they will tend to gravitate to such fields as chemical plant management, in which, as the Committee points out, their American counterparts " have found themselves admirably suited." The benefit to the industry when that comes about may be considerable.

P.A.S. and Streptomycin

THE best cure for tuberculosis is likely to remain prevention, as Professor F. R. G. Heaf, the newly appointed David Davies Professor of Tuberculosis to the West National School of Medicine pointed out in his inaugural address to the school. The results of the Medical Research Council's investigation (see p. 559) into the treatment of pulmonary tuberculosis with the use of para-aminosalicylic acid (P.A.S.) and streptomycin justifies, however, some optimism—at least so far as the types of case treated are concerned. The investigation bears out the opinion expressed in the Council's preliminary report.

The outstanding synergistic effect that P.A.S. has with streptomycin has been shown to be that of reducing the formation of bacillary resistance to streptomycin—a function illustrated in the fact that, in the group receiving combined P.A.S. and streptomycin treatment, the proportion of cases with organisms having a resistance ratio of over 8 rose only to 9 per cent. in five months, against 70 per cent. in four months in the group which received only streptomycin.

The cost of the treatment remains great, though further investigation may show that modified regimens may prove beneficial financially and therapeutically. In the

United States, for example, the average dose of P.A.S. is 12 gm., against 20 gm. in Britain, and the dose of streptomycin is also reduced. Workers in the United States have found that, in one series of 102 cases so treated, no drug resistance was found after 120 days' therapy. Intermittent dosing of streptomycin may also be beneficial, as indicated by results from America, so long as P.A.S. (which has a weaker tendency to produce resistance than streptomycin) is administered continuously.

The results should influence the method of prescribing the drugs. In view of the danger of producing streptomycin resistance, the "British Medical Journal" suggests editorially the use of streptomycin for crisis only; "merely to use it indiscriminately may be to throw away a trump card needed at a later stage."

The evidence the Medical Research Council workers have accumulated may help significantly in exploring the mechanism of drug resistance. It adds weight to the automatic physico-chemical hypothesis of drug resistance formation mentioned by Sir Cyril Hinshelwood in his discourse to the Royal Institution recently (see p. 559).

Medicines from the Police

In the Isle of Man under a new arrangement (see p. 536), members of the public who require their Health Service prescriptions made up are being asked to take them to the nearest police station. Unlike the dispute in N. Ireland and Scotland, where chemists have given notice to quit by the end of the month because of a cut in the oncost remuneration, the Island's dispute is over the Health Services Board's decision that a charge should be made (and collected by the chemist) for each prescription and that all containers should be charged for. When the chemists refused to collect the levy they were told that the amount would in any case be deducted from their payments. They bore that loss for some weeks, in the hope, no doubt, that the difficulties would be ironed out. But the Board had no need to move in the matter, since they were already getting all they wanted out of the chemists' purses. The Lieutenant-Governor of the Island refused to receive a deputation of chemists to hear their case, and furth more declined to allow the dispute to to arbitration. For that reason the c mists decided to quit the Service at same notice as they had been given shoulder their new duties.

What will be the outcome of th moves and countermoves it is imposs to forecast, but obviously six chemists c not indefinitely do the work of forty, is the Board's makeshift method of u the time and transport of the police economical proposition. On the first only £3 10s., presumably was collected 140 prescriptions—hardly enough to the petrol tax.

Rail Charges on a Fairer Ba

A statement issued recently by Federation of British Industries on strategic value and under-utilisation of railways of Britain declares that ther evidence that the capacity of the rail system generally is higher than is ne sary to absorb peak demands in a no peace-time economy. To maintain sur capacity at those times imposes a bu on the charges paid by the trader. peacetime there is surplus capacity on railways, but in war-time the system whole is heavily loaded. The margi surplus capacity must no doubt be reta for emergency uses, but it is idle or ur used in peace-time. Normally the su is maintained by current transport cha Hence a proportion of expenses necess incurred for defence purposes becom charge upon transport costs. The Fe tion accordingly calls for an indepen survey into present transport facilities cluding fixed installations, rolling s and equipment, taking into account of the British Transport Commissio future integration of all public trans and forecasts by industrial, commercia other transport users about their future needs. The Defence and Su Departments should be invited to say much of that surplus or under-used city must be retained for emergency poses. The cost of maintenance s then become a charge on the Defence mates, with a suitable apportionmen tween the different services and de ments.

REPORT ON P.A.S. AND STREPTOMYCIN

E Medical Research Council has pub-ed its final report on its investigations gun in 1948) into the effect of para-inosalicylic acid (P.A.S.) and streptomy-in the treatment of pulmonary tuber-osis, details of which are given in the ritish Medical Journal," 1950.2.1073-In general they confirm the findings blished in their preliminary report pub-ed late in 1949 (see abstract *C. & D.*, o.1.12). The inquiry was directed by a t subcommittee of the Council's Strep-ycin in Tuberculosis Trials Committee the British Tuberculosis Association's earch Committee.

total of 166 patients suffering from te progressive bilateral pulmonary erculosis were selected. Fifty-nine were ted with P.A.S. (P group), fifty-four streptomycin (S group) and fifty-three both drugs (SP group). After six ths' investigation all clinical data were to the M.R.C. Tuberculosis Research t.

During the first three months the ents in the P group received four 5 gm. s of the sodium salt of P.A.S., and e in the S group, one mega unit of ptomycin (by intramuscular injection) day. Those in the SP group received drugs in the same dosage. During the th month chemotherapy was suspen-It was decided that after this period additional treatment, such as collapse apy or administration of streptomycin he P group, could be applied. Some city was evident in each group.

-ray investigation after six months ved improvement in all three groups the number of improved cases was less he P.A.S. only group than in the other ps. Bacteriological examination of um revealed that the SP group yielded greater number of negative (and there-more favourable) results.

elopment of Drug Resistance

nvestigation of the development of ns of bacilli resistant to streptomycin result of treatment was considered to n important object of the trials. Of strains isolated after treatment those led by patients in the SP group had uch lower proportion of highly-resis-strains than those in the S group. investigation showed that P.A.S. e was beneficial in the treatment of monary tuberculosis. P.A.S. alone was less effective than streptomycin alone and a combination of the two drugs was only slightly more effective than streptomycin alone.

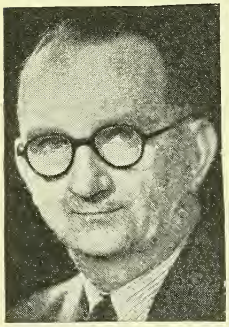
The most significant result from the combined treatment was the reduced manifestation of streptomycin-resistant bacilli. The use of P.A.S. alone seemed to be indicated in cases of complete streptomycin resistance, but this drug also had the effect of prolonging the effective period of streptomycin treatment.

MECHANISM OF DRUG RESISTANCE

HYPOTHESES about the mechanism by which bacteria adapt themselves to different nutritional conditions, and, for example, become drug resistant, were discussed by SIR CYRIL HINSHELWOOD, F.R.S. (Dr. Lee's Professor of Chemistry, University of Oxford) in a discourse given to the Royal Institution in London on November 3. During the period of reproduction of bacteria, sometimes about thirty minutes (in which "wonders of chemical manufacture" were performed) it had been found that the content of certain products in the organism, such as ribose nucleic acid, varied widely with conditions of growth, whereas the content of others, such as deoxyribose, remained almost constant. Was it that the reaching of a critical concentration of certain products in the bacteria acted as a signal for the organism to divide? Assuming that that was so, and that the bacterial products were formed as the result of "an efficient production line" of enzyme systems within the cell, using primary products obtained from widely differing nutrients, it was possible to sketch a physico-chemical hypothesis to explain the development of drug resistance. That did not conflict, as at first it might seem to, with the widely held biological dogma that acquired characteristics were non-hereditary, as the reproduction of bacteria involved the division of the complete organism. An alternative hypothesis—that of chance mutation—was that some phenomenon (even, for example, the effect of cosmic rays) caused by chance a mutation in a drug-sensitive organism, rendering it drug resistant. From that organism, the drug-resistant strain developed. The physico-chemical hypothesis had the advantage that fewer assumptions had to be made in accepting it.

PROGRESS IN PHARMACEUTICAL EDUCATIO

THE subject of "The Society's Educational Policy" was dealt with at the first of the evening meetings of the Pharmaceutical Society's 1950-51 session, held in London on October 30, when the speaker was MR. C. W. MAPLETHORPE (chairman, Council's Education Committee).



Mr. C. W. Maplethorpe

"The apothecary," said Mr. Maplethorpe, "was the forerunner of the pharmacist, and our starting point in considering pharmaceutical education is the granting of the Royal Charter of the Society of Apothecaries in 1617." During the ensuing centuries, a new class of persons for preparing and supplying medicines began to take shape, and, by 1841, provided the nucleus of the Pharmaceutical Society of Great Britain. The objects of the Society were defined as "advancing chemistry and pharmacy and promoting a uniform system of education of those who should practise the same and also for the protection of those who carry on the business of Chemists and Druggists." The Pharmacy Act, 1868, made the Assistant examination the basis of the Chemist and Druggist qualification and gave equal legal powers to chemists and druggists and to pharmaceutical chemists. Until the 1914-18 war, there was no compulsory pharmaceutical education. In 1919, the Society's Minor examination was re-entitled the Qualifying examination and was divided into two parts. A Preliminary examination had to be passed before pupilage was commenced. In 1925, regulations were brought in requiring practical training to be received under Articles of Pupilage. The Part 1 examination became the Preliminary Scientific, and the qualifying examination became known as Chemist and Druggist Qualifying examination. The Pharmaceutical Chemist qualifying examination was substituted for the Major. The newly established Bachelor of Pharmacy degree of the University of London was recognised as exempting holders from the Pharmaceutical Chemist Qualifying examination, except in forensic pharmacy. Similar recognition was later granted to grees of other universities. In 1935 London Matriculation or its equivalent adopted as the preliminary stand Physiology was included in the qualif examinations.

Post-war Changes

Changes in pharmaceutical educa after the 1939-45 war had developed f an interim and a final reports prese to the Council by the Education Com tee in 1947. The current position was persons registered as Apprentices or dents before June 1, 1948, could comp their qualification under the old condit with a certain time limit. Those regis ing after that must comply with the conditions. Revised syllabuses were b adopted, and regulations were being vised to permit a "refer" in two subj provided that those subjects were not pl maceutics and pharmaceutical chemist

It would be noticed, said Mr. Ma thorpe, that the main changes in the scheme were four: (1) Intermediate amination had to be passed before the pra cal training is commenced; (2) a joint amination for the Chemist and Drug and Ph.C. qualifications based on a t years' course had been adopted; (3 new syllabus for the two-years' course been introduced, and (4) practical trai undergone after sitting the final exam tion was to be for one year instead of as formerly.

"The requirements for registration an 'Apprentice or Student' remain m the same but the form is different." T was due to changes in school-leaving university requirements, for the School Higher School Certificate examinations been replaced by the General Certific of Education, ordinary and advanced st dards respectively.

The Intermediate examination now p ceded the practical training but remai virtually unchanged. The General Ce ficate of Education, advanced standa in the three subjects, chemistry, phy and biology, would exempt from the ciety's Intermediate. The object of quiring the Intermediate to be passed fore practical training was to prevent break in the continuity of academic stu and to introduce the student to pharm at a more responsible age. All stude would be eligible to do their practi

ning before or after the final examina- as it was not considered that there a sufficiently clear balance in favour one course to justify the exclusion of other. There had been an increasing dency to complete academic studies be- the practical training, and that was course the speaker personally favoured. may also account, in some measure, the view which some hold that there is ortage of entrants."

he courses for Chemist and Druggist Pharmaceutical Chemist qualifications now merged into one, lasting two s. The old chemist and druggist se had been recognised as imposing great a burden upon the student. The ting Ph.C. course would not have satis- orily solved the problem of a basic ification, and a new syllabus had been sed. In reaching that decision the ncil was taking a historic step. The tence of two statutory qualifications nothing to commend it. There should one qualification for the exercise of l rights and responsibilities though not essarily one route to achieve it.

e for Study

he average student year in schools of rmacy covered 1,000 hours. The new buses were based upon a student year 00 hours, each week being of only nty-six to twenty-seven hours' duration, ch should leave ample time for private y and avoid overcrowding. The rela- importance of pharmaceutics and rmaceutical chemistry had been re- sed by substantially increasing, at the nse of pharmaceutical chemistry, the allocated to pharmaceutics by roughly per cent. In that way, he said, they d to produce a good general practi- er in pharmacy, rather than a skilled ytical chemist. The product of the se of instruction should be a man who well trained in practical pharmaceu- and well informed on the synthetic nicals that played so great a part in ern medication; he would have a ral knowledge of crude drugs, some wledge of physiology, and of the law icable to the practice of pharmacy in at Britain. Teachers and examiners advised the Council that the study t required from the student was ap- imately two-thirds of that required by old syllabuses. To relieve what was times described as a test of endurance the student, the duration of the practical examination had been reduced from four-and-a-half days to three days. There was no change in the length of the theoretical examination. In the preparation of the syllabuses the Council had had the help of the teachers.

Approved university degrees had been increasingly used to achieve qualification "and we may expect that training inside the university and training outside the universities for professional purposes will go on side by side."

Specialisation

The conversion of the Chemist and Druggist and Pharmaceutical Chemist qualifications into a single basic qualification directed attention to the gap created by the absence of an examination to show evidence of a standard of knowledge in advance of that possessed by pharmacists generally. The merit of the old Ph.C. qualification had been to provide further knowledge of value in whatever sphere the holder had worked, though it had come to be regarded as of more value to industrial and hospital pharmacists than to those working in shops. That provision should be made for specialists was accepted. With the institution of the grade of Fellow of the Society, it would be possible to make better provision for them than in the past. It would be wrong, in the speaker's opinion, to conceive of the Fellowship as offering scope only to persons desiring to specialise.

The increasing interest the Council had been taking in encouraging research was indicated by the decision, a few years previously, to establish two research scholarships and the Charter travelling scholarship (value £300 each), to expand the facilities for research in the Society's Museum, and to establish a laboratory for work in connection with the scientific publications of the Society.

The speaker concluded with a tribute to the permanent officials of the Society.

Discussion

Mr. T. Heseltine challenged the suggestion that the Ph.C. diploma was of more use in hospital pharmacy and industry than in retail.

Mr. L. Matthews pointed out the lack of reference to the Society's special diplomas such as the Diploma in Biochemical Analysis and asked what the Society had done to advertise their value. Would the museum and the new laboratory, he asked,

provide facilities for post-graduate students?

Mr. Maplethorpe replied that he would like to see the D.B.A. abandoned unless it was made into one of the bases for a Fellowship. One post-graduate student was studying in the museum and proceeding to his Ph.D. The new laboratory was intended for obtaining information for the scientific publications of the Society.

The speaker told Mr. Sharp that either title (Ph.C. or chemist and druggist) could be used by persons qualifying under the new regulations. There was no exemption for students who had passed the internal B.Sc. from the Society's Intermediate examination.

Mr. Thorpe, on being assured that the present Ph.C.'s would become Fellows, asked whether that was not unfair to students at present in the final Ph.C. year.

Mr. Maplethorpe said that all who took the Ph.C. voluntarily were to be granted fellowship.

Mr. G. N. G. Smithers said he heard a rumour that the courses being extended in order to limit entr into the profession, and asked if that a wise policy.

The Chairman (Mr. A. A. Meldr answered that the figures of registra for studentship suggested the reverse. other member asked whether the Cou had any long-term view of the Inter diate examination, it being somewhat d cult for the training establishments to h two intermediate courses at the same ti Mr. Maplethorpe said that the pre Intermediate examination would be c tinued, but it was the Society's policy encourage students to obtain exemp from the examination while at school.

Mr. Heseltine asked why the stud was given a short and the teachers an tensive syllabus. Mr. Maplethorpe s that the students were to receive in fut a much more detailed syllabus.

LEICESTER PRIZE-GIVING

The School of Pharmacy, Leicester College of Technology and Commerce, held its prize-giving at the College on October 28, Mr. A. H. Preston (chairman, local Branch of the Pharmaceutical Society) in the chair. Giving his report, the head of the School (Mr. C. Gunn) stated that the school had had its heaviest year for enrolments. During the year thirty students had passed the various intermediate examinations; twenty-four the Chemist and Druggist; nine the Pharmaceutical Chemist examination, and four the B.Pharm. examination. The Umney Memorial prize had been won by a Leicester student in both the current and the previous years, and both students had previously won the school's own dispensing trophy. Mr. Gunn thought there should be more opportunity for the students to do their post-graduate practical training in Leicester. The standard to which a student could be trained in dispensing in one year was limited, but he felt that the students went out well versed in basic principles and with a high sense of professional integrity.

Presenting the prizes, the President of the Society (Mr. A. A. Meldrum) said he desired to see pharmaceutical education brought more into line with general education. He reminded students that their training did not finish with college, but commenced when they undertook practical training after their academic course. He hoped it would be possible to reintroduce the alternative of the two-y practical course before the Intermedi examination. There was no training i college, he declared, equal to practis pharmacy in an open shop, but within walls of the college the students were g ting the tools they would require to pr tise their profession. They should end vour to keep the tools sharp. Mrs. G bert (an ex-student), who moved a v of thanks to the president, said that Leicester students were taught not only pass examinations, but to practise ph macy well. Miss Arthur spoke on bel of the students.

The prizewinners for the 1949-50 sess were as follows:—

Leicester Branch prizes (Intermediate Course Messrs. A. W. Cuthbert (four prizes), and J. Needham; (*Ph.C. and B.Pharm. courses*), Mes W. J. Wright, P. L. A. Smith and J. I. Har *Dalmas, Ltd., prizes:* Miss G. D. Woolnough (prizes), Mr. P. G. Halford (two prizes); *Ce ficates of Honour* (*Ph.C. and B.Pharm. cour* Miss S. G. Arthur (two), Messrs. J. K. Bratt J. P. Richards. *The British Drug Houses, L prize:* (shared) Miss S. G. Arthur and Miss G. Woolnough. *E. H. Butler & Son, Ltd., pr* Miss J. Black. *Pharmaceutical Society* and *Ev Medical Supplies, Ltd., prize:* Miss G. D. Wo nough. *School of Pharmacy Advisory Commit prize:* Mr. E. R. Rowland. *George Hannam pr* Mr. P. G. Halford. *Ucal, Ltd., prize:* Miss S. Arthur. *Genatosan, Ltd., prizes for window play:* (first) shared by Messrs. H. D. Whyton a E. N. Manning; (second) shared by Miss S. Arthur and Mr. J. K. Bratt. *A. H. Preston priz* Messrs. H. D. Whyton and J. I. Harris.

DANGEROUS DRUGS (AMENDMENT) BILL

BILL to consolidate enactments relating Dangerous Drugs was ordered to be ited on November 9. It deals primarily amendments in relation to the ap- ation of the Dangerous Drugs Acts, o and 1923, to Northern Ireland and amendments in consequence of the gue of Nations being superseded by United Nations. The references to the visions of the Pharmacy Acts in Great ain and Northern Ireland are also ught up to date.

thern Ireland

Clause 1(1)(*a*) repeals the limitations on extension of Dangerous Drugs Act, o, to Northern Ireland and also the gerous Drugs Acts (Northern Ireland), 4, 1925 and 1932 (which correspond to gave effect in Northern Ireland to s of 1923, 1924 and 1932 amending principal Act). Clause 1(1)(*b*) provides the Dangerous Drugs Act, 1920 (as nded by the Acts of 1923, 1925 and 2) shall have effect in Northern Ire- l subject to amendments specified in t I of the Schedule to the new (1950) These amendments include:—

Section 7

Substitution of references to the Pharmacy and Poisons Acts (Northern Ireland) 1925 and 1945 for reference to the Pharmacy Act, 1868, and to the Pharmaceutical Society of Northern Ireland for the reference to the Pharmaceutical Society of Great Britain.

Section 10(1)

Powers of inspection extended to Northern Ireland under the Ministry of Home Affairs for Northern Ireland.

Section 13(1)(*d*) as in 1923 Act

Penalties for certain offences relating to Dangerous Drugs extended to "Great Britain or Northern Ireland."

Paragraph (2A) limits penalty in Northern Ireland for inadvertent or unintentional offences in dispensing prescriptions or keeping registers to not exceeding fifty pounds.

Defines the expression "court of summary jurisdiction."

Part II of the Schedule sets out the amendments to the 1923 Act including the calculation of percentages of drugs.

Clause 1 (2) applies Orders in Council relating to Dangerous Drugs to Northern Ireland "*as well*" as in relation to Great Britain.

ted Nations

Clause 2 concerns amendments conse- ntial upon the supersession of the League of Nations by the United Nations. Clause 2(1)(*a*) requires reference to the Hague Convention and Geneva Conventions (Nos. 1 and 2) to be construed as "references to those Conventions as amended by the Protocol on Narcotic Drugs" of December 11, 1946. Clause 2(1)(*b*) substitutes references to the Economic and Social Council of the United Nations and the Secretary-General of the United Nations for the Council of the League of Nations and its Secretary-General.

Great Britain

Clause 3 Section 7 of the Dangerous Drugs Act, 1920, is to be brought up to date by having its application take effect as if—

(*a*) For "shop" there were substituted "premises duly registered under Part I of the Pharmacy and Poisons Act, 1933."

(*b*) The following subsection was substituted for subsection (3).

"(3) Nothing in any regulations made under this section shall be taken to authorise the sale by retail of poisons by any person who is not qualified in that behalf under, or otherwise than in accordance with, the provisions of the Pharmacy and Poisons Acts, 1852 to 1941, or to be in derogation of those Acts for prohibiting, restricting or regulating the sale of poisons."

ANALYST'S REPORT

Salford.—The Salford city analyst referred for investigation eight of a total of forty-five samples of drugs analysed under the Food and Drugs Act, 1938 and one of two samples of ammonia analysed under the Pharmacy and Poisons Act, 1933, during the year 1949. A sample of borax was found to contain 100 parts per million of arsenic, the B.P. limit being 5 parts per million. Although the labelling recommended the borax for household purposes, there was nothing precluding medicinal use. The packers were asked to amend the label. A sample purchased as "Glauber Salts, Powdered" was found to be exsiccated Glauber's salt. An informal sample purchased as mercurial ointment was found to be of the same strength as ung. hydrarg. B.P., whereas the name mercurial ointment refers to ung. hydrarg. dil. B.P. Subsequently a formal sample was taken and the ointment was found to be three times the strength of the preparation demanded. The vendor was fined.

HEPARIN AND DIGITALIS ASSAYS

CONTINUITY of publication of the proceedings at the Science Sessions of the British Pharmaceutical Conference Glasgow meeting 1950 was interrupted by the recent dispute in the printing industry in London. The papers still outstanding are summarised below:—

Sulphated Blood in Heparin Assay

S. S. ADAMS

DATA INTERPRETED BY K. L. SMITH

[ABSTRACT]

USING sulphated fresh ox blood (which is more stable than many oxalated or citrated bloods as plasmas, and may be stored for three to four weeks below 4° C.), and thrombokinase extract, the clotting times produced by three dilutions of standard heparin, and three equivalent dilutions of the unknown heparin are determined simultaneously. This is repeated four times for a complete assay. The change in the fluidity of the blood observed by gentle tilting indicates the onset of coagulation and by shortening the interval between examinations the operator can determine the end-point to within fifteen seconds and with practice avoid the breaking of the clot by premature inversion. The interpretation of the data, using the linear relationship which exists between the log. coagulation time, and the log. concentration of heparin gives potency estimates with a high order of accuracy. The method which has the advantages of being rapid, and accurate, gives results that agree well with whole blood methods, uses simple equipment and technique, and gives good reproducibility of results between different workers. [*From Boots Pure Drug Co., Ltd.*].

DISCUSSION

MR. R. MAXWELL SAVAGE, Barnet, said he and colleagues had used a similar method and could confirm the authors' observations. They had conducted the test at a controlled temperature—a procedure which, as indicated in the paper might be too much. An alternative method used micro technique and gave accurate results within fifteen seconds. As dried plasma stored in screw-capped bottles in a refrigerator and dessicator would clot for periods up to one year, and as thrombin was stable over years, could not a titration be conducted normally?

DR. G. E. FOSTER, Dartford asked if the authors had had experience with heparin that had a retard action.

MR. SMITH told Mr. Maxwell Sa in reply that he was most interested his method. Three to ten minutes allo plenty of time, however, for adeq accuracy by the method described. I culties had been experienced when u dried plasma and thrombin. Retard parations, consisting of heparin in a gel base, had been used. They were ass by comparing the effects of the sar under test, and of heparin of kn potency, when injected into rabbits.

Assay of Tinctures of Digitali

HARRY BRINDLE AND GERALD RIGE

[ABSTRACT]

FAIR agreement has been found in results of the chemical and biolog assays of tinctures of digitalis prepa from the same sample of powdered di lis leaf. The chemical method used ployed the Baljet reaction. Several m fications have been employed, and method in which the final coloured s tions were diluted with an equal vol of distilled water has been preferred. period during which the colours allowed to develop has been extended sixty minutes, and a method of calc tion using the Bell and Krantz forn has been used. In the biological ass methods described by Moller and by C dum have been employed and regres equations have been calculated. Biol cal and chemical methods of compar indicate that the removal of saponin no effect on the potency of a saponin c taining tincture of digitalis.

[*From the Department of Pharm Manchester University.*]

DISCUSSION

MR. K. L. SMITH, Nottingham, reg ted that the investigation had been unc taken only on tinctures prepared f one sample of digitalis powder.

DR. G. E. FOSTER said that the Ba method was not reliable if a photo-elec apparatus were not used. There might cardiotonic (curative) and cardiotoxic (mal-killing) effects of digitalis. Workers Japan had recently discovered anot glycoside in digitalis. Biological st dardisations were only valid if standard were the same qualitatively as substance under test. MR. H. S. GRAING London, reported that the same therap tic effect seemed recently to be obtaina from smaller doses of digitalis, and w

ed if that might partly be accounted by improved tablet-making or preserva- methods.

Mr. C. J. Eastland, Ware, asked if the kers had conducted parallel tests on l tinctures from the same batch of He had found a great difference in results given by chemical and bio- al tests on digitalis glycosides. Baljet reaction depended on the turated glycone radicle. The lactone left after hydrolysis would give that tion. If the sugar moiety were elimi- d during preparation of the galenical result of the assay would be high. He dered if preparations that gave the result chemically would be the same macologically.

r. H. Deane, Sudbury, Suffolk, said as parallel results were difficult to in from standardisations on cats, frogs, guinea pigs, a chemical method of lardisation would be welcome.

eplying, Mr. Rigby said that the next would be to conduct the test on tinc- made from other samples of leaf, and eparate the glycosides digitoxin and in. A Spekker absorptiometer had used with blue filters, and the stan- deviation was 2-8 per cent. A tinc- made with absolute alcohol had been d more stable than one made with er alcohol—an observation that linked his remarks on hydrolysis.

ALKALOID CHROMATOGRAPHY

tract of Part III ("The Alkaloids of *ca granatum*") of a paper presented . Chilton and M. W. Partridge at Glasgow meeting, 1950, of the sh Pharmaceutical Conference.]

ppeared of interest to investigate the ation of the alkaloids of pomegranate their relative proportions in the crude and in commercial samples of "pelle- e tannate"; and to obtain more in- ation on their relative activities as elmintics. Application of the method rtition chromatography to the separa- of the alkaloids was studied. It was d that the major portion of the alka- adsorbed by kieselguhr could be itted to chromatographic separation column consisting of phosphate buffer buted on powdered glass.

e proportion of total alkaloids in granate root and root bark was found ary widely: fresh samples generally contain a higher concentration of total alkaloids than older samples. There appeared to be no regularity in the relative proportions of pelletierine, *pseudo*pelletierine and methyl*iso*pelletierine present, but the highest proportion of pelletierine relative to the other alkaloids was found in the fresh sample of wood of the root. The assay process of the Pharmacopœia, which is designed to determine total bases in "pelletierine tannate," affords no evidence of the proportion of active alkaloids in the material. Pelletierine or one of its salts, isolated from the crude drug, would provide the most satisfactory anthelmintic preparation from pomegranate. To isolate it, fractional distillation or exploitation of the adsorptive capacity of kieselguhr would appear suitable. It was found that commercial samples of "pelletierine tannate" might contain little or no pelletierine, the pomegranate alkaloid exhibiting the highest activity against the liver fluke.

[*From a thesis submitted by one of the authors as candidate for the degree of Master of Pharmacy, University of Nottingham.*]

A PHARMACIST'S ANTHOLOGY

"Just another question or two, if you please, Mr. Gresley. I want to make sure I've got your statement correctly. You say you picked up a bottle of medicine at Dr. Warren's some time shortly after seven this evening?"

"Yes, that's correct."

"Then you went to the club, spent the evening there, and arrived here about ten minutes to eleven?"

"Correct.

"You didn't call here earlier than that?"

"No, I went from the doctor's to the club and stayed there till I came here, as I said."

Cornwall nodded. "Well, that's clear enough. And you brought the medicine with you?"

"Yes, I said so."

"Quite. And that's the bottle?"

"That's it."

Cornwall turned to Warren. "Tell me, doctor, when that medicine is shaken up, how long might it take to settle again?"

Gresley's eyes turned to the bottle, then almost started from their sockets. There it stood, solid white at the bottom, clear liquid above.—*From "Medicine Bottle" by Freeman Wills Crofts.*

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale qua ties of standard quality. Prices of crude drugs and essential oils vary as to brand or gr

28 Essex Street, W.C.2, Nov. 15

ACTIVITY in PHARMACEUTICAL and FINE CHEMICALS markets continues brisk with a good call from the home trade for seasonal products such as CODEINE, ASPIRIN and the SALICYLATES while a steady demand is reported for SULPHONAMIDES. Export inquiry is in good volume but in a growing number of instances, owing to heavy commitments, manufacturers are unable to book further business. Prices of CREAM OF TARTAR and TARTARIC ACID have advanced by 15s. per cwt. EPHEDRINE is dearer: the ALKALOID has risen by a shilling an oz., HYDROCHLORIDE by sixpence and SULPHATE by ninepence. The Cuban Government has raised the price of molasses to be shipped in 1951. This increase may compel distillers to further advance prices of ALCOHOL, demand for which has been steadily rising. Output from distilleries is to be supplemented in the near future by supplies from petroleum-cracking plant. The markets for CRUDE DRUGS have been quiet generally. Supplies of Cape ALOES are still very scarce though it is understood that there have been offers from the origin at 170s. per cwt., c.i.f.; business has been done ex wharf at the same figure. Sumatra BENZOIN is very firm and spot prices of No. 1 block have risen to £25 per cwt.; a substantial forward trade has been done and Singapore is no longer offering. HENNA is in good inquiry; spot business has been done in Sudanese material at 90s. per cwt. CASCARA SAGRADA is firm and unchanged in price; supplies of bark at origin continue in short supply. Chinese RHUBARB is in good supply, though quality varies greatly as several recent shipments have proved to be poor material. A parcel of Shensi is reported to have changed hands at a high figure. Tinnevelly SENNA is unchanged in price: little if any Alexandrian PODS are now available. SPICES continue quiet. GUM ACACIA is a firm market with an acute shortage of supplies. WAXES generally are firm. MENTHOL is quiet and prices little changed. It is reported that China has suspended the export of further supplies of menthol to Hong Kong. The ESSENTIAL OILS markets have been without special features. Chinese ANISE is slightly dearer on the spot; the shipment market is firmer and there is not much offering.

U.S. Drug and Chemical Report

New York, November 10

THE PHARMACEUTICAL and FINE CHEMICALS market continues quiet with demand rather slow for seasonal items. However, inquiry for ASPIRIN and CITRIC ACID has been quite substantial and supplies are very short. MERCURIALS are unchanged in pr but the market is firm following a reve of the downward trend in the price of metal. SILVER SALTS are firm at rece advanced levels. ZINC OXIDE has been vanced in price. There is only a lim demand for the majority of CRUDE DRU but shortages in many directions are s ing to keep the tone of the market fi ERGOT, PAPAIN, BALSAMS, HYDRASTIS SENEGA are showing strength. DANDEL ROOT and several other drugs of Cen European origin are becoming very d cult to obtain, and spot prices are expe to move upwards with any increase in mand. Nicaraguan IPECACUANHA is dea current spot prices are from $5.90 to per lb. There has been very little requ for MENTHOL, but spot prices are firm unchanged at last week's price of per lb. Supplies of Chinese menthol ar ing towards the end of the month are be offered as low as $10.60 per lb. Acti in the ESSENTIAL OILS and AROMA CHEMICALS markets has been on a f scale. A feature has been the firmn in PEPPERMINT—spot prices of this oil expected to be raised shortly in sympa with recently advanced country pri Several other oils of domestic origin cluding DILL, WORMSEED, CEDARWOOD SPEARMINT are showing strength. Fre LAVANDIN OIL has advanced to $23.20 lb. and Spanish SPIKE LAVENDER to $1.

Pharmaceutical Chemicals

ACETARSOL.—Prices range from 40s. 44s. per lb., as to quantity.

ADRENALINE.—B.P. is quoted from 3s. 3s. 6d. per gm. for natural and 2s. 2s. 6d. for synthetic; racemic, 2s. per g

p-AMINOBENZOIC ACID. — Makers' pri are from 35s. to 38s. 6d. per lb. T SODIUM SALT is 37s. 6d. to 41s. per lb.

AMMONIUM CHLORIDE, B.P. — Stea Makers quote 1-cwt. lots at 9½d. per lb.

ASPIRIN. — Makers' rates are 3s. 9 per lb. in 10-cwt. lots and 3s. 11d. in cwt. lots. Schedule rates per lb. for quan ties of 28 lb. and under 1-cwt. are 4s. 1 (1-lb. containers); 4s. 9d. (2-lb.); 4s. 8 (4-lb.); 4s. 7½d. (7-lb.); 4s. 7d. (14-lb. 4s. 6d. (28-lb.); net one month. Rates p 1,000 for bulk supplies of TABLETS ar under 5,000, 4s. 1d.; 5,000 and ov 3s. 11d.; 10,000, 3s. 10d.; 25,000, 3s. 8 50,000, 3s. 5d.; 1,000,000, 3s. 4 2,000,000, 3s. 3d. In good request.

BENZOCAINE.—Quotations for 28-lb. lo are 40s. per lb.

BETANAPHTHOL.—1-cwt. lots are quot at 2s. 4d. per cwt.

ITRATES. — Current rates per lb. are follows :—POTASSIUM, 5-cwt. lots, 1½d. ; 1-cwt., 3s. 2½d. ; quantities from). to 1-cwt. are (containers in kets) : 4s. 0½d. (1-lb.) ; 3s. 11d. (4-lb.) ; 10d. (7-lb.) ; 3s. 9d. (14-lb.) ; 3s. 8½d. lb.) ; powder, 1d. per lb. extra. IRON AMMONIUM CITRATE, B.P., scale, 8d. lb. and granular 7d. per lb. more than e. SODIUM, B.P., 3d. per lb. less ; der, 1d. per lb. extra.

OCAINE. — Current rates per oz. are : ALOID, CITRATE and SALICYLATE, bot- ¼-oz., 89s. ; ½-oz., 85s. ; 1-oz., 82s. 6d. ; , 80s. 6d. ; 4-oz., 79s. 3d. : 8-oz., 3d. ; 16-oz., 75s. 3d. ; tins, 25-oz., 9d. HYDROCHLORIDE, NITRATE and HATE, bottles, ¼-oz., 79s. ; ½-oz.. 75s. ; , 72s. 6d. ; 2-oz., 70s. 6d. ; 4-oz., 3d. : 8-oz., 68s. 3d. ; 16-oz., 65s. 3d. ; 25-oz., 64s.

REAM OF TARTAR. — Home-trade rates cwt. are now as follows :—10-cwt. lots, . ; 5-9 cwt., 178s. ; 2-4 cwt., 179s. ; t., 180s., delivered.

PHEDRINE. — Dearer. New rates for oz. lots, as from November 9, are :— ALOID, 12s. ; HYDROCHLORIDE, 7s. ; and HATE, 8s. 3d. per oz.

THER.—Current rates per lb. for ETHER, INICAL, B.S.S., and SOLVENT, B.P., as follows :—10-cwt. lots, 1s. 8½d. ; t., 1s. 9½d. ; 48-lb., 1s. 10½d. ; 24-lb., under 24-lb., 2s. 3d. Rates for AN- HETIC, B.P., are as follows : 10-cwt. 2s. 7d. ; 5-cwt., 2s. 9d. ; 1-cwt., ½d. ; 72-lb., 2s. 11d. ; 36-lb., 3s. 1d. ; ., 3s. 5d. ; under 12-lb., 3s. 7d. per lb. foregoing prices are for ethers packed inchesters : in 1-lb. bottles (charged returnable) prices are 2½d. per lb. ; in drums, 1½d. per lb. less.

AIACOLS.—Liquid and crystal are from 6d. to 17s. 6d. ; and carbonate from 6d. to 18s. 6d. per lb.

ERCURY DERIVATIVES.—Firm. AMMONI- B.P., powder, is now 10s. 3d. (1-cwt. to 10s. 11d. (7-lb.) per lb ; lump opence per lb. less. BICHLORIDE, B.P., er, is from 8s. 6d. to 9s. 2d. ; lump, nce per lb. more. CHLORIDE, B.P. mel) is from 10s. 3d. to 10s. 11d. per OXIDES, B.P.C., levigated, or yellow, are from 10s. 9d.

CHELLE SALT.—Unchanged. Rates per for powder or granular salt are : 5- 140s. ; 1-cwt., 142s. 6d. Crystal is d. per cwt. more. SEIDLITZ POWDER, ary strength is now 109s. 3d. per cwt. cwt. lots and 111s. 3d. in 1-cwt. lots ; he same quantities extra strong is 6d. and 119s. 6d. per cwt., and double gth, 122s. 6d. and 124s. 9d. per cwt.

RTARIC ACID.—Prices increased by 15s. wt. on November 15. New home-trade are as follows :—10-cwt. lots are now per cwt. ; 5-9 cwt., 202s. ; 2-4 cwt., ; 1-cwt., 205s.

Crude Drugs

ACONITE.—Steady. Spanish *napellus* is quoted at 3s. per lb., spot, duty paid ; Indian, for shipment, 2s. 3d. per lb., c.i.f.

AGAR.—Firm. Kobé No. 1 on the spot is in good request at from 9s. 9d. per lb., duty paid ; Japanese is offered from Hong Kong at 5s. 6d. to 6s. per lb., c.i.f.

ALOES.—Cape is still scarce. November-December shipment is reported offering at 170s. per cwt., c.i.f. Curaçao on the spot is from 220s. to 225s. per cwt.

ANTIMONY.—Dearer. English, 99.6 per cent., £260 ; 99 per cent., £250 per ton.

ASAFETIDA.—Persian on spot is quoted at from £13 to £20 per cwt., as to grade.

BALSAMS.—*Canada*, 23s. per lb., on the spot ; for shipment, 21s. per lb., c.i.f., nominal. *Copaiba*, B.P. soluble, on spot is quoted at from 8s. 9d. to 9s. 6d. per lb., duty paid. San Salvador *Peru* is quoted at 9s. to 9s. 6d. per lb., duty paid (8s. 3d. in bond). *Tolu* is quoted at 21s. per lb., spot.

BELLADONNA.—Irish herb is offered at from 4s. 6d. to 5s. per lb. on the spot. Low-testing root is available at 4s. 6d.

BENZOIN.—Sumatra block on the spot is higher in price at £25 per cwt. for the No. 1 quality ; forward, £22 10s., nominal, c.i.f. Siam almonds, from 29s. to 30s., spot.

BLACK HAW. — Tree bark is offered at 3s. 3d. per lb., ex store.

BUCHU.—A steady spot business has been done in short-round leaves at 2s. 2d. per lb.

CALUMBA.—Natural sorts are quoted at from 75s. to 80s. per cwt., spot.

CAMPHOR. — Steady. Chinese powder, B.P., is from 4s. 6d. per lb. ; and B.B., 4s. 3d. ; ¼-oz. tablets, 5s. 6d. ; 2½-lb. slabs, 5s. ; all duty paid, in London.

CANTHARIDES. — Chinese on the spot is 5s. 6d. per lb. ; for November-December shipment from Hong Kong, 4s. 11d., c.i.f.

CAPSICUMS. — African on spot is 190s. to 250s. per cwt., as to grade.

CASCARA SAGRADA.—Firm. 1950 peel is offering at 340s. per cwt., duty paid (310s., in bond).

CASSIA PODS.—Macassar now afloat is quoted at 92s. 6d. per cwt., c.i.f. ; for shipment, 87s. 6d., c.i.f.

CINNAMON. — Ceylon OOOO afloat, 2s. 10½d., c.i.f. ; OOO, 2s. 9d. ; OO, 2s. 7d. ; O, 2s. 4d. ; firsts, 2s. ; seconds, 1s. 11d. ; thirds, 1s. 10½d. ; fourths, nominal ; quillings, 1s 4d. ; featherings, 11d. ; chips, 4¼d. per lb., c.i.f. London.

CLOVES. — Quiet. Zanzibar on spot, sellers at 2s. 2d. per lb. ; November-December, 1s. 9d., c.i.f. Madagascar, 2s. per lb., in bond ; November-December, 1s. 8d., c.i.f.

COCHINEAL.—Steady. Supplies of black are offered at 5s. 6d., and of silver grey at 5s. per lb., spot London.

COLCHICUM. — Corms on spot are quoted at from 2s. 3d. to 2s. 9d. per lb., as to test; seeds, from 7s. 6d. to 9s. per lb., spot, duty paid.

DRAGONS BLOOD.—Singapore reboiled No. 1, £58 to £60 per cwt., spot; No. 2, £37 10s.

ELEMI.—Manila No. 1 on the spot is from 2s. to 2s. 6d. per lb.

ERGOT.—Little business reported. Spot supplies are unchanged at 47s. 6d. per lb.; forward, 44s. to 46s., c.i.f.

FRANGULA BARK.—Quotations are in the region of 85s. per cwt., duty paid, spot.

GALANGAL.—Dearer for shipment. November-December shipment from Hong Kong now 107s. 6d. per cwt., c.i.f.

GAMBOGE.—Siam pipe is offered at £40 per cwt., duty paid; powder is quoted at 11s. 6d. per lb., spot London.

GENTIAN.—Spot quotations are from 97s. 6d. per cwt.; for shipment, 90s., c.i.f.

GUAIACUM.—Supplies of resin now afloat are offering at 3s. 3d. per lb., c.i.f.

GINGER.—African is offered at 335s. per cwt., spot. Jamaica, No. 3, 480s. per cwt., nominal, spot; No. 1 on the spot, 485s. per cwt.

GUM ACACIA. — Market firm. Kordofan cleaned sorts offered at 117s. 6d. per cwt., spot London or Liverpool; November-December, 110s., c.i.f.; January-February, 104s., c.i.f.; February-March, 103s., c.i.f.

HENBANE.—Egyptian (*H. muticus*) f.a.q. is offering from origin at from 85s. to 86s. per cwt., c.i.f. *Niger* (0.4 per cent. alkaloids), 4s. 3d. per lb., spot.

HENNA.—Steady. Business done in Sudanese, on the spot, at 90s. per cwt.

HONEY.—Prices of manufacturing grades are as follows:—1-cwt., 86s.; 5-cwt., 84s.; 10-cwt., 82s.; 1-ton, 80s. per cwt., carriage paid in U.K., packed in 60-lb. drums. Refined honey: In 56-lb. tins, 100s.; 28-lb., 115s.; cases of four 7 lb., 130s. per cwt., carriage paid.

HYDRASTIS.—Stocks on the spot are held for a price of 40s. per lb.

IPECACUANHA. — Firm. Prices are unchanged. Colombian, 42s. 6d. per lb., spot; for shipment, 41s. to 41s. 6d. Nicaraguan, scarce, 45s., spot, quoted. Matto Grosso, 44s., spot; Minas, 43s. to 44s., spot.

IRISH MOSS.—No. 1 carragheen on the spot is quoted at 84s. per cwt.

JALAP.—Brazilian root (16.9 per cent. resin) on the spot is offering at 2s. per lb.; Mexican, to arrive shortly, from 3s. 6d. to 4s. per lb., landed terms.

KARAYA.—No. 1 on the spot is quoted at 400s., and No. 2, 325s. per cwt.

KOLA NUTS.—African quarters, 6d. per lb., spot, value; African ½'s for shipment, 4½d., c.i.f., indicated.

LANOLIN.—B.P anhydrous is £120 ton; hydrous, £90. Superfine anhydr is quoted at £126 per ton. In short sup

LIQUORICE.—Anatolian natural root the spot is quoted at 55s. per lb. Syrian at 42s. 6d. in Liverpool. Bri block, 150s. to 195s. per cwt., as to gr Turkish block juice is quoted at from 1 to 220s., duty paid, according to hol Turkish stick is from 285s., duty p Italian stick is from 285s. to 475s. cwt., duty paid.

LYCOPODIUM.—Triple-sifted material, the spot, is quoted at from 11s. 6d. to per lb., duty paid.

MACE.—West Indian pale blade is q ted at 8s.; for shipment, 8s., c.i.f.

MASTIC.—No. 1 tears are quoted at fr 12s. 6d. to 13s. per lb., spot.

MENTHOL.—Firm. Chinese on the s is offering at from 105s. to 110s. per c duty paid (in bond, 100s.).

MERCURY.—A very firm market. S quotations are from £31 to £31 10s. flask, ex warehouse; forward, nominal.

MYRRH. — Aden sorts, quoted at fr £10 10s. to £12 per cwt.; siftings, £6 1 to £7; both spot London.

NUTMEGS. — West Indian 80's, 4s. per lb; unassorted, 3s. 10d., and worn 2s. 10d., spot London. East Indian 8 for shipment, 5s. 7d., c.i.f.

OLIBANUM.—Good drop is quoted at fr 220s. to 225s., and medium drop at 190 peas are 220s.; fair garblings, 125s.; s ings, 135s. per cwt., spot.

ORANGE PEEL.—Thin cut Tripoli to rive, 1s. 4½d., c.i.f.

PAPAIN. — Scarce. East African whi 36s. to 37s. 6d. per lb., spot, nomin for shipment, 34s., c.i.f. paid. Ceyl brown, from 25s. to 29s. per lb., nomin spot.

PIMENTO.—Quiet. Spot quotations from 1s. 8¾d. per lb.

PODOPHYLLUM. — Indian (*emodi*), shipment, is valued at 435s. per cwt., c.

PSYLLIUM.—A parcel of Indian seed offered at 125s. per cwt., ex store Liv pool.

QUASSIA. — Quiet. Chips on spot 32s. per cwt.; for shipment, 29s., c.i.f.

RHUBARB. — Plentiful supplies are n available on the spot. Good quali Chinese rough round is from 7s. to 8s. per lb., duty paid. Shensi has chang hands at about 14s. to 15s. per lb., du paid.

SARSAPARILLA.—Jamaican native red spot is 2s. 5d. to 2s. 6d. per lb.; for shi ment, 2s. 2½d. to 2s. 3d., c.i.f.

SEEDS.—Turkish ANISE on the spot 145s. per cwt. in bond, and 155s. per cw duty paid; Cyprus is 175s. per cwt., sp

erpool. CARAWAY.—Dutch is firm at s. per cwt., duty paid, in London. ERY.—Indian, spot London, is selling 1s. 10½d. per lb.; French is nominal 50s. per cwt., duty paid. CORIANDER.—ket dearer for shipment, with business e at 145s. per cwt., c.i.f. London, for ember-December shipment. Morocco, the spot, is in short supply—175s. per , duty paid, now quoted. CUMIN.—ket quiet, with prices unchanged from week. Cyprus on the spot is 205s. cwt.; Indian is 200s. in Liverpool. rus, for shipment, is quoted at 192s. 6d. cwt., c.i.f., and Indian, 185s. per cwt., Morocco remains at 250s. per cwt., DILL.—Market continues quiet at per cwt., spot London. FENNEL.—an is offered at 105s. per cwt., spot ion. FENUGREEK.—Market quiet. Mor- is offered at 50s. per cwt., duty paid, London or Liverpool.

NEGA.—Sellers are asking 18s. 9d. per or spot supplies; afloat, 18s. 3d., c.i.f. NNA.—Firm. Tinnevelly leaves, f.a.q., 1, 1s. 4d.; No. 2, 1s. 2½d.; No. 3, ½d., spot, nominal. Tinnevelly hand-ed pods are from 2s. to 2s. 3d., spot. andrian pods, nominal, spot; Alexan-n broken leaves are offered at from to 10½d. per lb. and siftings at from to 9½d.

ELLAC. — F.O.T.N., pure, is 335s.; Standard No 1, 345s; and fine ge, from 360s. to 410s. per cwt., spot ion.

AR ANISE. — Supplies for November-mber shipment are reported offering origin at 200s. per cwt., c.i.f. London.

RAMONIUM.—Indian, from origin, 4¾d. . per lb., c.i.f., indicated.

YRAX.—Spot quotations for crude are out 7s. 6d. per lb., duty paid.

AGACANTH.—White ribbon, selected, is d at £150 per cwt.; No. 1, £145; No. 27; No. 3, £110, spot.

AXES. — Market generally firm with ies scarce. BEES'. — Dar-es-Salaam, per cwt., spot, nominal; November-mber shipment, 512s. 6d., c.i.f., no-l. Benguela, 495s., duty paid, spot; mber-December shipment, 435s. per c.i.f. Sudanese, 500s. per cwt., spot, nal; for shipment, 440s., c.i.f. CAN-LLA.—Spot, 530s. per cwt.; forward, ers. CARNAUBA.—Prime yellow, 1,030s. wt., spot: afloat, 950s., c.i.f.; Novem-ecember, 950s., c.i.f. Fatty grey, per cwt., spot, nominal; December-ary shipment, 830s., c.i.f. MONTAN.—ck, 127s. 6d. per cwt., spot; for ent, 115s., c.i.f. OURICURI.—1 per impurities, 780s. per cwt., spot: 0.5 cent., November-December shipment, c.i.f.

TCH HAZEL BARK.—Supplies on the are valued at about 3s. 9d. per lb.

Essential and Expressed Oils

ANISE.—Firm. Drums are offered at 9s. 6d. to 9s. 9d. per lb., and cases from 9s. 9d. to 10s., spot London; for November-December shipment, drums, 9s 9d., c.i.f.

BIRCH TAR. — Steady. Crude is offered at about 5s. 9d. to 6s. per lb., spot London.

CARDAMOMS.—English-distilled is quoted at from 450s. per lb.; imported, from 378s. to 400s. duty paid.

COPAIBA. — Spot quotations are from 20s. per lb.

DILL.—English-distilled oil is quoted at about 65s. per lb. for B.P. quality. Imported oils are offered at from 45s. to 55s. 3d. per lb., as to quality.

ORANGE.—Sicilian bitter is nominal at from 23s. 6d. to 27s. 6d. per lb., spot; Spanish sweet, business done at 12s. 9d. per lb., c.i.f. London, for January shipment. West African sweet is offering at from 11s. to 12s. per lb., spot. Californian sweet is from 9s. to 10s. 9d. per lb., spot.

PETITGRAIN.—Paraguay on spot is offering at around 20s. per lb.; Bigarade is available at 160s. per lb.

SASSAFRAS.—Brazilian natural is quoted at from 6s. 3d. to 6s. 6d. per lb., duty paid, spot London.

SPEARMINT.—Supplies on the spot are about 40s. per lb.

Alcohol

PRICES (exclusive of duty) of ethyl alcohol per proof gall. that came into operation on October 1 are as follows :—

Plain British Spirit: Where the number of proof gall. taken over any one year ended December 31 is 300,000 or over the price is 2s. 2½d.; 200,000 and less than 300,000, 2s. 3d.; 100,000 and less than 200,000, 2s. 3½d.; 50,000 and less than 100,000, 2s. 4d.; 10,000 and less than 50,000, 2s. 4½d.; 2,500 and less than 10,000, 2s. 5½d. When deliveries are requested to be made in 10-gall. containers the above prices are increased by threepence. Where the number of proof gall. taken in the specified period is less than 2,500 prices are: For deliveries of 40 gall. or more in containers of 40-gall. capacity or larger, 2s. 7¾d.; for deliveries of 40-gall. or more in 10-gall. containers, 2s. 9¾d.; for deliveries of 10 gall. or more, but less than 40 gall., 3s. 3¾d.

Absolute Alcohol, 74.5 *o.p.* and *Doubly-rectified Alcohol* (*S.V.R.*), 68 *o.p.* are one penny more per proof gall. than Plain British Spirit; *Absolute Alcohol,* 75.2 *o.p.* is threepence per proof gall. more; and *P.I. Rectified Alcohol,* 68.5 *o.p.* is sixpence per proof gall. more. The price of *R.R. Absolute Alcohol,* 75 *o.p.,* is 9s. 6d. per bulk gall. (net.).

Terms: Net cash, seven days from date of invoice; delivery carriage paid, empties to be returned carriage forward.

CORRESPONDENCE

Correspondents may adopt an assumed name for publication but must furnish their real name and address to the Editor

Service Dispensers

SIR,—Is there any organisation of dispensers who hold a Service qualification? Perhaps some of your subscribers know of one.

Yours faithfully,
Paisley. ALEX HOUSTON.

Prices of Hot-water Bottles

SIR, — Your readers are perhaps now familiar with the position on the rubber market at the present time. The cost of raw rubber has increased from 11½d. per lb. a year ago to over 5s. per lb., with the result that reputable manufacturers are forced in turn to increase their selling prices of hot-water bottles and other rubber chemists' sundries. Pale or water-white crêpe rubber, from which we produce such items as feeding-bottle teats, drug-packing caps, etc., is almost unobtainable at the moment. The cessation of hostilities in Korea will undoubtedly improve matters, as it may then be unnecessary for America to "stock-pile" much further, but it is hoped that the price of raw rubber may be not more than 3s. per lb. in the future.

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Man-power

SIR,—Your correspondent Ph.C., mentions that the greatly increased salaries are . . . due to the appalling shortage of labour (presumably pharmacists is meant). Is he suggesting with Mr. Taylor and L. W. K. that the doors should be thrown open to all and sundry? And would those salaries then assume the meagre scales of University lecturers?

Northampton F. G. FLEMING.

SIR,—Replying to Ph.C.s letter on man-power (*C. & D.*, November 4, p. 497) I suggest that holders of the Apothecaries' Hall certificate should be given full recognition. There are not a large number, but the little would help. In optics, several examining bodies are recognised; why not in dispensing? I think one of two things should be done, viz., either the Pharmaceutical Society take over the Apothecaries' Hall dispensers lock, stock and barrel, or the Society of Apothecaries should take the necessary steps to obtain full recogn for holders of their diploma, as other there is no advantage in taking their amination.

SPATUL

COMING EVENTS

Monday, November 20

NORTH-WEST METROPOLITAN REGION, Hos PHARMACISTS' ASSOCIATION, Council Cha 17 Bloomsbury Square, London, W.C.1 7.30 p.m. Annual meeting.

Tuesday, November 21

EAST METROPOLITAN BRANCH, PHARMACEU SOCIETY, Room 2, Stratford Church Institut Romford Road, London, E.15, at 8 p.m. bers' meeting.

SLOUGH BRANCH, PHARMACEUTICAL SOCIETY, munity Centre, Slough, Bucks, at 8 p.m representative of Hanovia, Ltd., on General Aspects of Ultra-violet and Infr Radiation."

Wednesday, November 22

ROMFORD BRANCH, PHARMACEUTICAL SOC Unicorn, Gidea Park, Romford, Essex, at p.m. Brains trust.

TUNBRIDGE WELLS BRANCH, PHARMACEU SOCIETY and ASSOCIATION, Queen Victoria pital, East Grinstead, Surrey, at 3.15 p.m. A. R. G. Chamings, on "A Survey of Anti-rheumatic Drugs," and film show of a Drug."

Thursday, November 23

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOC Kingsfare Restaurant, King Street, Luton, p.m. Address by Mr. F. W. Adams (reg of the Society).

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, den Neurological Institute, Stapleton, Bristo 7.15 p.m. Dr. Grey Walton, M.A., on Study and Imitation of Brain Activity."

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, come Club, High Street, Dartford, at 8 Film show presented by Mr. D. G. Ardley & Baker, Ltd.).

NORTH WALES BRANCH, CHEMICAL SOCIETY, partment of Chemistry, University Colleg North Wales, Bangor, at 5.45 p.m. Dr. F Rose, O.B.E., on "A Chemotherapeutic S in Retrospect."

PLYMOUTH BRANCH, PHARMACEUTICAL SOC Goodbody's Café, 4 Lisson Grove, Mutley, mouth, at 1.15 p.m. Luncheon. Main Le Hall, South Devon and East Cornwall Hos Freedom Fields, Plymouth, at 7.30 p.m. show.

THAMES VALLEY DISTRICT PHARMACISTS' ASS TION, Kingston Hotel, Kingston, Surrey, at p.m. Dr. H. Davis (Chief Pharmacist, Mi of Health) on "Some Aspects of the Nat Health Service."

Friday, November 24

BIRKENHEAD AND WIRRAL PHARMACISTS' ASS TION and BRANCH, Woodside Hotel, Birken at 8 p.m. Mr. S. F. Woodard (Glaxo La tories, Ltd.), on "Vitamin B_{12}."

THE LONDON MEDICAL EXHIBITION is being at the New Horticultural Hall, Westminster, don, S.W.1, November 20-24.

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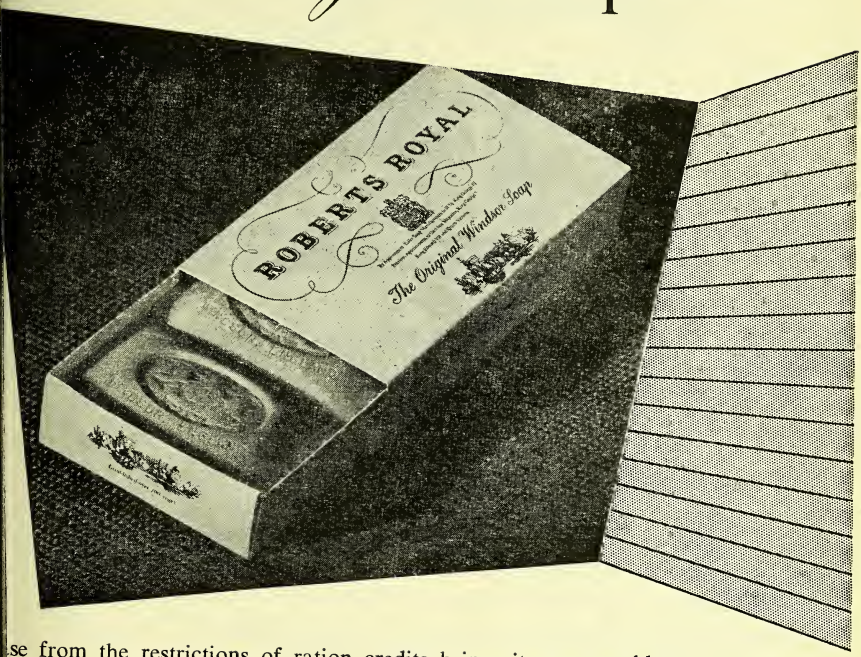

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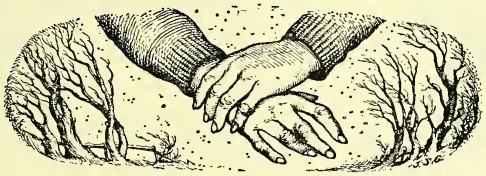

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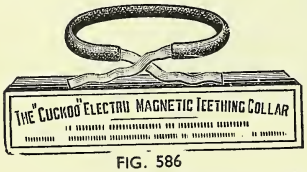

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WHITE EDGES (P.I.)

LE
GED

SCARLET
(G.P.O.)

For over a century

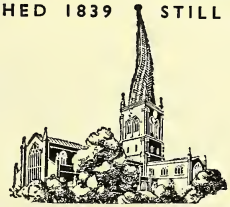
Stock Round Boxes for the Chemist

have been manufactured by

OBINSONS OF CHESTERFIELD

FIRST ESTABLISHED 1839 • STILL LEADING 1950

oxes in the above categories
w back to pre-war standard
quality being improved by
rn methods of manufacture



Specifications and standards to comply with **N.H.S. and B.S.I. Specifications**

Supplies are available, and your order should be placed through your usual source.

NSON & SONS, WHEAT BRIDGE MILLS, CHESTERFIELD. *Grams:* 'BOXES' CHESTERFIELD *Phone:* 2105
ondon Office: King's Bourne House, 229-231 High Holborn, W.C.1 *Telephone:* HOLborn 6383

(R.24

ANNOUNCING—

DIN-DIN

MEATS FOR BABIES

PURE LIVER PUREE

A SIGNIFICANT ADVANCE IN INFANT NUTRITION

DIN-DIN Liver Puree is made from fresh pig livers and brought down to the smallest particle size for babies' easy digestion. Nothing is removed and nothing added except liver stock and salt for flavouring. DIN-DIN permits the beneficial adoption of a mixed diet for babies at a very early age.

The Ministry of Food Bulletin on feeding children of 1-5 recommends liver or meat daily in the diet.

INTENSIVE PROPAGANDA

is now being undertaken among Paediatricians, Infant Welfare Clinics, etc., so **DIN-DIN SALES ARE ASSURED.**

ORDER NOW

Packed in glass jars of 3-ozs net.

Supplied in wooden outers of 1, 2 & 4 doz.

GENEROUS PROFITS

Manufactured by:— **ANTIGEN LTD., Roscrea, Republic of Ireland.**

Liver is rich in protein, iron and the B vitamins, etc., and promotes firm muscles, a greater weight gain, and a thriving, strong, healthy baby.

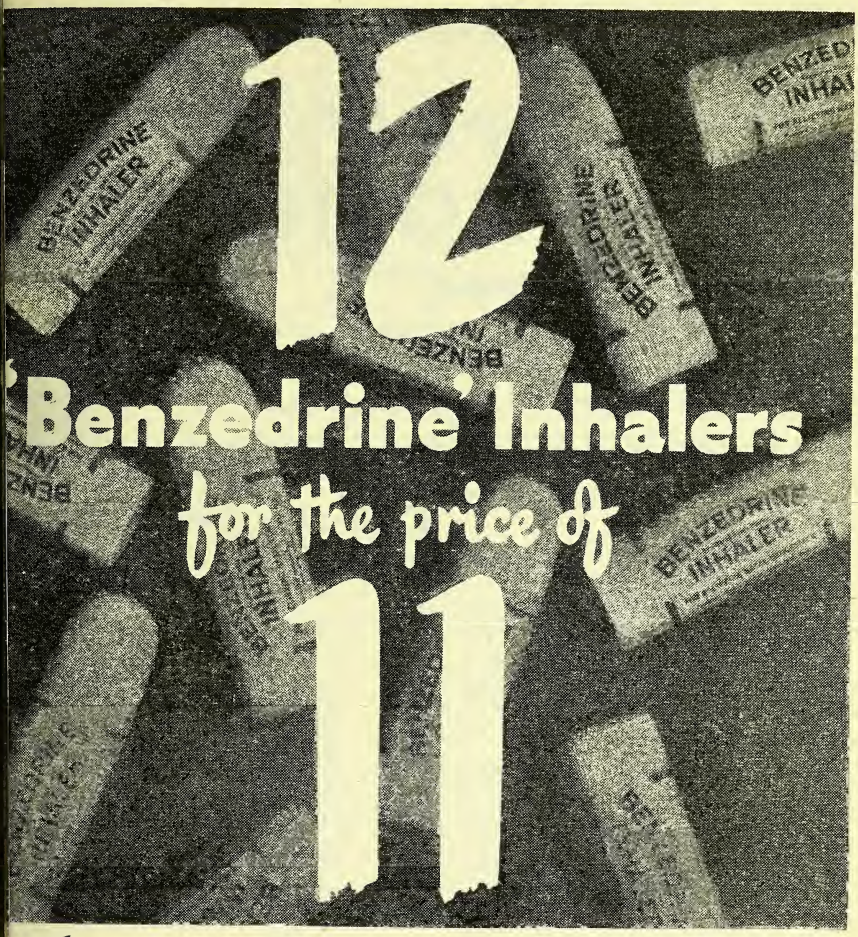
Write for trade terms to the

Sole Distributors:

DIN-DIN LTD.

5 RAMPAYNE ST., LONDON, S.W.

Phone: Victoria 5555



These display terms are available until the 30th November. Order now.

'Benzedrine' Inhaler

LEY & JAMES, LIMITED, 123 COLDHARBOUR LANE, LONDON, S.E.5
Smith Kline & French International Co., owner of the trade mark 'Benzedrine'

By Appointment
Brushmakers
G.B. Kent & Sons Ltd.

IMPORTANT NOTICE

Announcing—

The *NEW* 'POPULAR' model of the KENT-COSBY '*Allure*' Perfume Hairbrush Retailing at 25/- inc. Pur. Tax

To the world's greatest selling hairbrush is now added a NEW model for a NEW market at a price within the buying range of the majority of your customers.

The new "POPULAR" model embodies the design and patented world exclusive hygienic and perfume features of the Kent-Cosby "Allure" Hairbrush in a new range of enchantingly coloured enamelled wood handles, and this brings to an immense new public those benefits which are now being enjoyed by hundreds of thousands of discerning women.

National advertising will increase to build up your Christmas trade. Place your Christmas order now and be certain of delivery.

- REFILL TAKES OUT TO WASH
- HANDLEBACK NEVER SPOILT BY WATER
- ABSOLUTE CLEANLINESS AT BRUSH BASE

The "ALLURE" Range

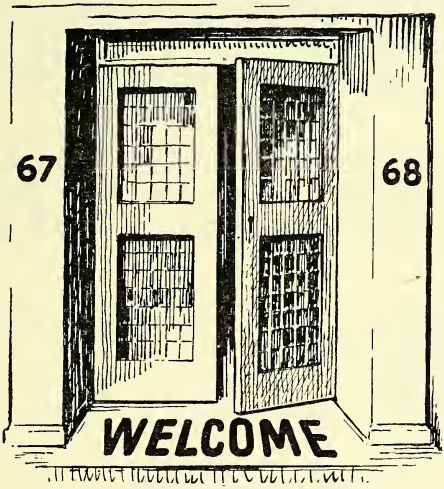
New "POPULAR"	**25/- each**	Retail Price including Purchase Tax
Existing "PRINCESS"	**39/6 ,,**	
Pure Bristle "DE LUXE"	**63/- ,,**	

Remember the '*Allure*' Brush is an ideal Christmas Gift Lin
EVERY day is somebody's birthday.

G. B. KENT & SONS LTD. 24 OLD BOND STREET, LONDON, W.1
Telephone: REGent 1471/2/3. Telegrams: Tricho. Piccy. London.

MAW'S Fitting Service

As you know it as been a tradition with us for many years to provide the most expert truss and hosiery fitting service at our London Fitting Rooms now in the West End.
Send both your private and N.H.S. customers to Maw's and feel confident that they will receive the sort of service you yourself like to give them.
We have experienced fitters for both male and female patients and the most careful attention is paid to the smallest adjustments. Please telephone for appointments so that we can give you our undivided attention.



67 - 68 Jermyn Street
London, W. 1

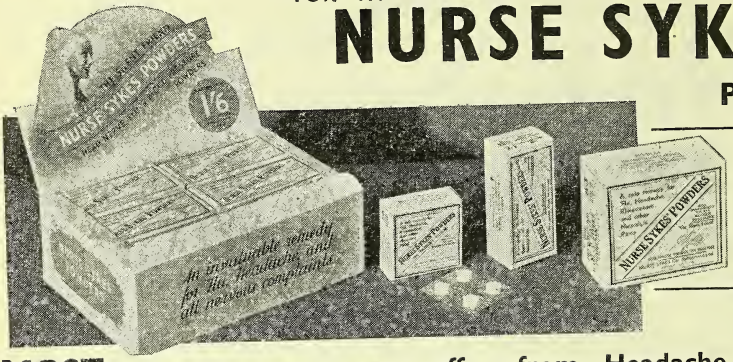
Fitting Rooms: Tel. WHItehall 5255

S. MAW SON & SONS LTD., Aldersgate Ho., Cromer Rd., New Barnet. Herts
Tel: BARnet 5555

FOR THE RELIEF OF PAIN . . . .

NURSE SYKES'

POWDER



13 to the do
for a Cour
or Windo
Display
1 dozen
Carriage pa

MOST of your customers suffer from Headache, Neuralgi
Depression, etc. . . . . .
Nurse Sykes' Powders will relieve them and at the same tin
show you the **MOST** profit.

ETHICAL SHOW MATERIAL AVAILABLE ON REQUEST. SPECIAL TERMS TO CHEMIS
SEND YOUR ORDER TO YOUR WHOLESALER OR DIRECT TO:
NURSE SYKES' COMPANY, ASHTON - UNDER - LYNE, LANC
RETAIL PRICE 1/6 per Box of 8 Powders or 16 Tablets 6/3 per Large Box of 36 Powders or 72 Tablets
WHOLESALE PRICE 1/6 size 10/6 per doz. + Tax 6/3 size 4/3 each + Tax

Better **M&W** *Value*

PENICILLIN PREPARATIONS

- **Lozenges,** 500 units, in tubes of 20.
- **Solution Tablets,** 10,000 and 15,000 units. Tubes of 10. Bottles of 100.
- **Ointment,** 25-Gramme tubes.
- **Eye Ointment,** 5-Gramme tubes.
- **Oral Tablets,** 50,000 and 100,000 units. Tubes of 20.

Quality and reliability is maintained by the supervision of pharmacists at all stages.

Quotations on request. ***Supplies available from stock.***

Suppliers of a complete range of Pills, Tablets, Capsules, Lozenges, and Suppositories

MATTHEWS & WILSON LTD.
EST. 1895
6 - 8 COLE ST., LONDON, S.E.1
TELEGRAMS: PILLEOLUM, SEDIST, LONDON · TELEPHONE: HOP 2147-8

Richard Daniel & Son Ltd

PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

FOR CHEMISTS

Manufacturing Chemists

Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

Creative printing
FOR OVER 70 YEARS

LABELS CARTONS AND OTHER SPECIALIZED PRINTING

THOMAS WAIDE & SONS LIMITED
KIRKSTALL HILL LEEDS.5.

ANGIERS 1950 BONUS OFFER

brings you

12½% EXTRA PROFIT

Order Angier Products Now

Winter will bring you increased demands for the Angier Products—Emulsion, Supavite, Halibut Liver Oil and Junior Aspirin. This year's Angiers Bonus Offer will bring you even greater profits on your *extra* sales.

By ordering the Angier lines in mixed parcels to a value of £5 or over you obtain a special EXTRA discount of 12½% up to December 31st 1950. Parcels can be adjusted to meet your estimated NORMAL demand for the season, augmented by Angier's heavy and effective advertising.

GENERAL TRADE TERMS

ANGIER'S EMULSION

Prices	MEDIUM SIZE	Retail 3/10d. each (inc. P.T.); Trade 38/6 per doz. (inc. P.T.) Bonus Parcel Price 34/11 per doz. (inc. P.T.).
	LARGE SIZE	Retail 6/4d. each (inc. P.T.); Trade 64/- per doz. inc. P.T.) Bonus Parcel Price 58/- per doz. (inc. P.T.).

ANGIERS SUPAVITE CAPSULES

Prices	Retail 5/- each; Trade 42/5 per doz.; Bonus Parcel Price 37/2 per doz.

ANGIER'S HALIBUT LIVER OIL CAPSULES

Prices	MEDIUM SIZE	Retail 4/- each; Trade 34/8 per doz.; Bonus Parcel Pric 30/4 per doz.
	LARGE SIZE	Retail 7/6 each; Trade 65/3 per doz; Bonus Parcel Pric 57/1 per doz.

ANGIERS JUNIOR ASPIRIN

Prices	Retail 1/6 each (inc. P.T.); Trade 13/4 per doz. (inc. P.T.); Bonus Parcel Pric 12/1 per doz. (inc. P.T.).

The Bonus offer applies only to mixed parcels to a value of £5 or over, made up from three or more of the following lines—Angier's Emulsion (complete dozens only) Angiers Supavite Capsules, Angier's Halibut Liver Oil Capsules and Angiers Junior Aspirin (complete dozens only).

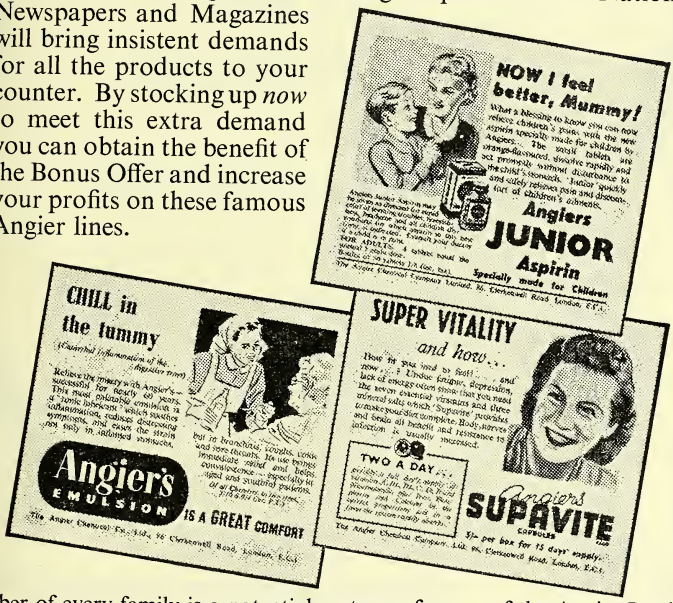
STOCK UP NOW

Sole Distributors:—

FASSETT & JOHNSON LTD., 86, CLERKENWELL ROAD, LONDON, E.C

00 Million Advertisements for ANGIER PRODUCTS will appear this winter

The Angier name, well known for 60 years, will be constantly before the public throughout this winter. Extensive, forceful advertising for the Angier products in National Newspapers and Magazines will bring insistent demands for all the products to your counter. By stocking up *now* to meet this extra demand you can obtain the benefit of the Bonus Offer and increase your profits on these famous Angier lines.



ry member of every family is a potential customer for one of the Angier Products. Stock e widely advertised products this winter and use the attractive Angier display material on counter. Ask our Representative for details of FREE window display.

ANGIERS PRODUCTS

are made by

THE ANGIER CHEMICAL COMPANY LIMITED,
LABORATORIES AT RUISLIP, MIDDLESEX.

All orders should be sent to the Distributors:—

SSETT & JOHNSON LTD., 86, CLERKENWELL ROAD, LONDON, E.C.1.

FOR HOME & EXPORT

★ Fine Chemicals

★ Pharmaceuticals

★ Drugs

★ Essential Oils

HARDY

★ We can supply these and many other drugs advantageously.

M·W·HARDY & CO. LTD

PINNERS HALL · GT WINCHESTER ST · LONDON · E.C.2

TELEPHONE: LONDON WALL 7131

DISPENSING SUNDRIES

HANG UP IN YOUR DISPENSARY

DISPENSING BOTTLES

		1 oz.	2 oz.	3 oz.	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.	16 oz.	20 oz.
WHITE FLINT FLATS STANDARD QUALITY IN CARTONS	Per Gross	15/9	16/3	17/6	18/9	20/3	21/–	24/3	29/6	37/6	51
U.G.B. WASHED AND STERILISED	5 Gross Assorted	16/9	15/3	16/6	17/3	19/–	19/9	24/9	27/6	35/–	48/–
	Per Gross	—	21/4	—	26/4	—	31/–	39/6	46/–	50/6	65/6
	3 Gross Assorted	—	20/–	—	24/9	—	29/–	37/–	42/3	47/6	61/3
RIBBED OVALS STANDARD QUALITY	Per Gross	14/3	16/3	18/3	19/6	21/–	21/9	27/6	30/9	39/–	53/6
Screw Caps if required	5 Gross Assorted	13/6	15/3	17/3	18/–	19/9	20/6	26/–	28/9	36/6	49/6
	Per Gross	3/4	3/4	3/7	3/7	3/9	4/–	4/–	—	—	—
BOW-FRONTED PANELS U.G.B. WASHED AND STERILISED Black Korkalite Caps.	Per Gross	27/–	30/–	31/6	35/–	37/6	40/–	—	45/6	62/–	78/–
	5 Gross Assorted	25/–	27/6	29/–	32/6	35/–	38/–	—	42/–	57/6	74/–

VIALS

	1 oz.	2 oz.
Per Gross	9/8	13/–
5 Gross Assorted	9/–	12/3

3 dr. (screw cap) 18/–

TABLET TUBES 7/6 Per Gross 9/- Per Gross (Rubber Caps)

TABLET BOTTLES 25s. 50s. 100s.
Bakelite Caps Per Gross 13/6 16/- 21/-

CORKS

STANDARD GREEN LEAF 5 Gross
Nos. ... 3 ... 1 oz.
Per Gross ... 1/5

BEST SILVER LEAF
Nos. ... 3 ... 1 oz.
Per Gross ... 2/3

PAPER AND TWINE

4 6 8 10 12
3/3 4/- 4/- 6/-

Kraft 30"

POWDERS 4" x 4½" 10d.
Coloured Sulphite 20" x 30" 18/-
1/-

SEALING WAX 3/9 per lb. (20 sticks)

CHEPETTES
PER GROSS

CORRUGANZA
PER GROSS

LITTLE JOHN DRU
PER GROSS ...

MAGNESIA LITTLE J
Per gross jdr 5/- 1dr

oz. 5 6
8 17/8 35/-

oz. 4 oz. 8 oz.
8 21/4 29/-

LARGE .. 18/-

GLASS JARS
With Bakelite Caps

OPAL U.G.B.	Per Gross	
WHITE FLINT	Per Gross	

DROP BOTTLES, with pipette

		½ oz.	¾ oz.	1 oz.
AMBER	Per Dozen	5/–	5/3	5/9
CLEAR	Per Dozen	5/-	5/3	5/9

DISPENSING MEASURES

			2 dram.	1 oz.	4 oz.	8 oz.
CONICAL	Minim Graduations	Per Dozen	48/–	51/–	60/6	67/–
CONICAL	Drachms and Ounces	Per Dozen	1 oz. 49/9	2 oz. 54/–	4 oz. 64/–	
CUP SHAPE	Ounce Graduations	Per Dozen	10 oz. 81/–	20 oz. 95/–	40 oz. 142/–	

BALANCES AND COUNTER SCALES
(WEIGHTS EXTRA)

DISPENSING BALANCES
No. 50 A reliable and serviceable balance ... £6 0 0
WHITE MONARCH. The de luxe balance ... £11 11 0

COUNTER SCALES, 2 lb.
No. 201/A. Brass beam and fittings ... £9 10 0
CCS/55. Chromium, Stainless Steel Pans ... £12 0 0

WEIGHTS
Per set ... Drachm 8/- Grain 5/6

FUNNELS, LOTION BOWLS, Etc

		3"	4"	5"	5½"	6"	8"
FUNNELS Glass	doz	15/–	20/–	24/–	—	33/–	50/6
Enam. Iron	"	—	34/8	—	42/–	52/–	—
Polythene	"	—	—	27/–	—	—	—
LOTION BOWLS Enam. Iron	doz	—	—	—	15/6	25/6	
KIDNEY TRAYS	"	—	—	—	—	24/–	

SPATULAS AND STIRRING RODS
Per Dozen

	4"	5"	6"	7"	8"	9"	10"	12"
SPATULAS Perspex	4/3	6/10½	8/9	12/6	15/–	15/7½	18/9	25/–
Vulcanite	—	—	5/6	—	7/6	—	10/–	—
Steel	35/–	39/–	42/–	49/–	58/–	69/–	81/–	—
Stainless Steel	—	—	65/–	75/–	—	—	—	—
STIRRING RODS Vulcanite	—	—	—	—	—	10/9	—	14/–
Glass	—	—	—	—	3/6	—	—	—

FILTER PAPER, Etc.

	5"	6"	7½"	9"	10"	13"
FILTER PAPER Thin White, per 100 sheets	1/8	2/–	2/10	2/11	3/5	5/1
Thin Grey, per 100 sheets	1/3	1/8	2/5	2/10	3/3	5/1

TEST TUBES, 5" x ⅝" doz. ... 1/-

BUNSEN BURNERS
Chromium plated, with positive on-and-off tap action ... each 13/6

CHECK DUSTERS, 24" x 24" doz. ... 21/–

PESSARY and SUPPOSITORY MOULDS

PESSARY	6 hole	12 hole	SUPPOSITORY	6 hole	12 hole
60 gr	27	48 each	1 gr	14/	20/ each
100 gr	48/	80 each			

All Brass Nickel Plated Conical Shape.

MORTARS AND PESTLES

MORTARS AND PESTLES

	4"	4½"	5½"	6½"	8"	10"	12"
No	0	1	2	4	6	8	10
Each	3/–	4/	6/9	11/6	15/6	25/–	39/–

OINTMENT SLABS

OINTMENT SLABS

	8"	10"
Each	4/6	7/9

PRICES SUBJECT TO ALTERATION WITHOUT NOTICE

Telephone: ARDwick 1561-2

May, 1950

A NEW ISSUE

Our dispensing sundries card is now being reissued with up-to-date prices. Dispensing sundries are shown on the front, and on the back is the N.H.S. Third Schedule of Surgical Dressings and Druggists' Sundries. If you are not already on our mailing list, write for a copy now. It will be sent free, postage paid.

HOPE MILLS

MACDONALD & SON LTD.
POLLARD STREET

MANCHESTER 4

Full size of our Dispensing Sundries Card, 12½" x 9¾".

"RELIANCE"

150 YEARS IN THE SPONGE TRADE

"CRESSWELLS" are today the largest bulk buyers of **Natural Sea Sponges,** with a widespread organisation which gets the best when the sponge crop is fished. For the best sponges, in the widest range, the brand is **RELIANCE.** Please send for illustrated leaflet showing our full range of attractive sales-producing sponge boxes.

Your enquiries, for sponges and also for CHAMOIS LEATHERS, will receive immediate, expert attention.

RELIANCE FINEST QUALITY SPONGE

CRESSWELL BROS. SPONGES

(International Sponge Importers Ltd.)

SPONGE IMPORTERS & EXPORTERS

BUCK STREET · CAMDEN TOWN · LONDON

Phone: GULliver 5462-3 Telegrams: Sponge, Norwest, London

A COMPELLING LINK

The 'Jenner's' advertising regularly appearing in National Media, including Punch, News of the World, the Daily Mail and the Sunday Dispatch, is now being supplemented by film advertising, in the leading Cinemas in many parts of the country. An attractive window display will attract an increasing proportion of the growing sales to your counters.

Write for particulars of our Window Display Service. We supply all necessary material and, in many districts, the free services of an Expert to dress the window for you.

SAVORY & MOORE
STANDARD WORKS
LAWRENCE RD., LONDON, N.15
'PHONE: STAMFORD HILL 3456
'GRAMS: "NUSALIN" SOUTHTOT LONDON

DR. JENNER'S *for Indigestion*

A **WINNER**
FOR YOUR
WINTER
WINDOW!

Set a spur to winter sales by giving 'Kepler' a prominent display. Let the lively 'Kepler' showcard work for you as "silent salesman." Forceful advertisements for 'Kepler' are currently appearing in the "Radio Times" and other favourite family magazines *with a readership of over 30 million*. By linking up with this publicity campaign you can be sure of securing a satisfactory share of the profitable 'Kepler' market.

'KEPLER' BRAND
COD LIVER OIL WITH MALT EXTRACT

BURROUGHS WELLCOME & CO. *(The Wellcome Foundation Ltd.)* LONDON

AN OUTSTANDING SERVICE

COX

Over a Century of Work
Devoted to Scientific

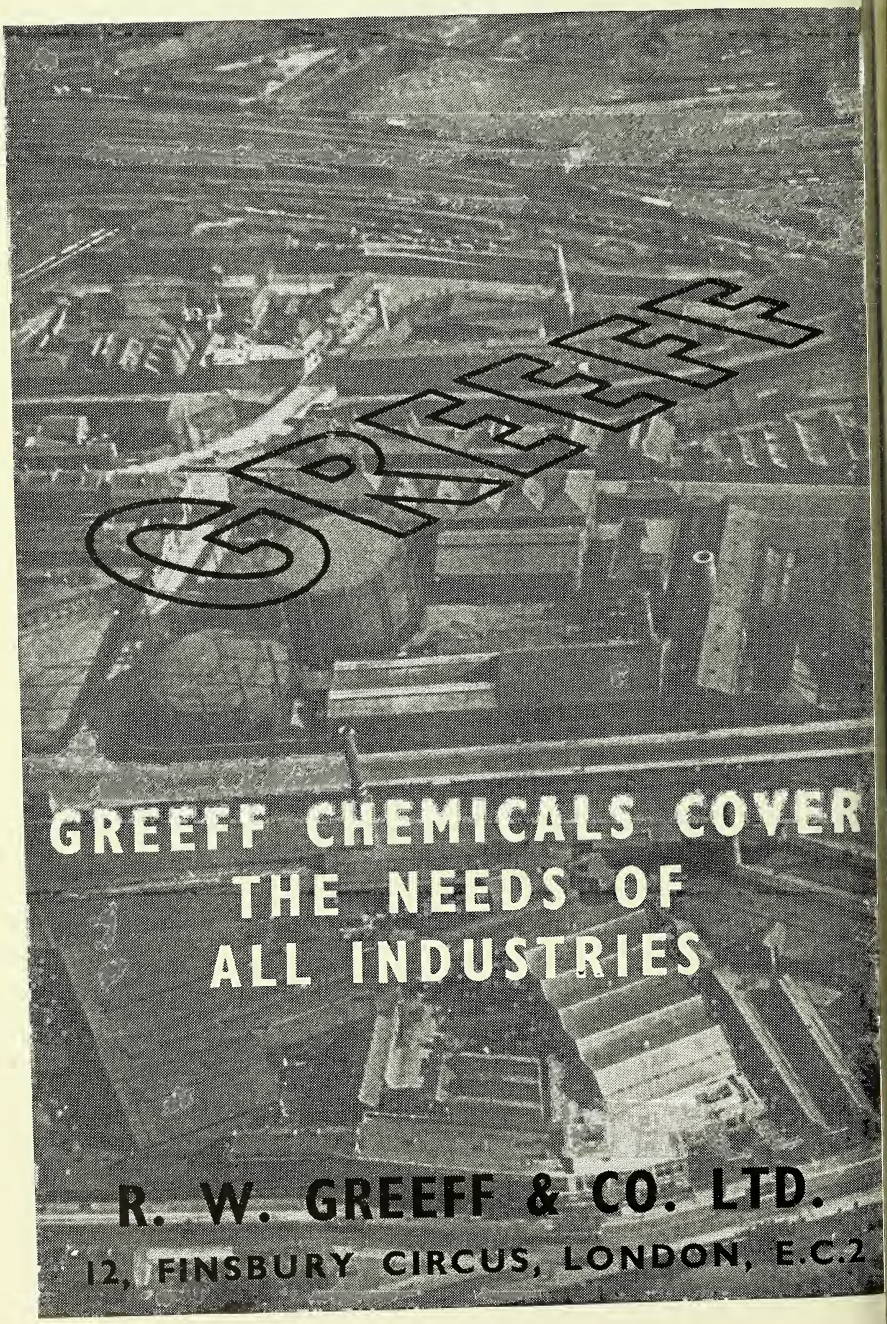
PILL & TABLET
making

We welcome your enquiries for

GROSSES OR MILLIONS
BULK OR PACKED · ANY SHAPE OR SIZE
COATED OR UNCOATED
STANDARD OR SPECIAL FORMULÆ

ARTHUR. H. COX & CO. LTD.
BRIGHTON · SUSSEX · ENGLAND

WITH A WORLD WIDE REPUTATION


GREEFF CHEMICALS COVER
THE NEEDS OF
ALL INDUSTRIES
R. W. GREEFF & CO. LTD.
12, FINSBURY CIRCUS, LONDON, E.C.2

POWDERED DRUGS

•

Over a century's experience
goes into the milling of our:

DIGITALIS
IPECAC.
BELLADONNA
RHEI
LIQUORICE
ALOES
GENTIAN

•

Send us your enquiries and orders

TAFFORD ALLEN & SONS LTD., Wharf Rd., London, N.1. CLErkenwell 1000

TAS/AL.336

THE *New* RAYON-ELASTIC Support Bandag

"Rayolast" bandages offer the following advantages over the wool-cotton crepe bandages:—

- Lightweight.
- Instantaneous absorption.
- Low incidence of skin irritation.
- Prolonged elasticity and durability even after frequent washing.

"RAYOLAST" Rayon-Elastic bandages are approved by the Ministry of Health for supply on N.H.S. form E.C.10.

Available sizes:—	2½ inch	3 inch	4 inch
Price per dozen:—	21/2	25/1	32/9

HARKER STAGG LTD.

EMMOTT STREET, LONDON, E.1

MONSANTO CHEMICALS
FOR EVERY INDUSTRY

Germicides

Cresantol 3 (Benzyl Cresol)

PCMX (Chloroxylenol B.P.)

Cresantol 15 (Chlorinated Xylenols)

PCMC (Chlorocresol B.P.) an auxiliary germicide

OTHER MONSANTO PHARMACEUTICALS INCLUDE:

ASPIRIN B.P.: ASPIRGRAN: PHENACETIN B.P.:
SALICYLIC ACID B.P.: SALICYLIC ACID, TECHNICAL:
SODIUM SALICYLATE B.P.: METHYL SALICYLATE B.P.:
PHENOLPHTHALEIN B.P., VANILLIN:
PHENOL B.P.: CRESOL B.P.

ONSANTO CHEMICALS LIMITED · VICTORIA STATION HOUSE · LONDON, S.W.1

For the relief of pain and swelling in

Chilblains
Aching Joints
Sore Muscles
Mumps
'Rheumatic' Pains

Resolvent, analgesic, and non-staining, 'Iodex' cum Methyl Salicyl. has proved clinically effective in the relief of local pain and swelling. The penetrative power of 'Iodex' enables sites too tender to be massaged to be treated effectively merely by a liberal application covered with gauze and a *light* bandage.

When the skin is broken 'Iodex' *plain* is recommended; it is so bland that it can be applied without discomfort even to mucous surfaces.

'Iodex' PLAIN

'Iodex' CUM METHYL SALICYL.

Stainless iodine ointment

	Trade Price	Purchase Tax	Retail Price
1oz. jars	18/9 doz.	6/3 doz.	2/9 each
4oz. jars	52/3 doz.	17/5 doz.	7/6 each

MENLEY & JAMES, LTD., 123 COLDHARBOUR LANE, LONDON, S.E.5
owners of the trade mark 'Iodex'

XT: 110

CARNEGIE

Manufacturers of Fine Chemicals

ALOIN
• • •
ATROPINE
• • •
BISMUTH
• • •
CHRYSAROBIN
• • •
EPHEDRINE
• • •
IODIDES
• • •
P.A.S.
• • •
PODOPHYLLIN
• • •
SANTONIN
• • •
STRYCHNINE
• • •
ETC.

CARNEGIE CHEMICALS (WELWYN) LTD

WELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND

TELEGRAMS: CARNECHEM WELWYN GARDEN TELEPHONE: WELWYN GARDEN 506 (4 lines)

A 'CARNEGIES OF WELWYN' COMPANY

The Safe and Effective Treatment for Head Lice

'Lorexane' Head Lotion contains gamma benzene hexachloride, a most powerful parasiticide which destroys head lice at one application. It is easy to use, non-irritant and has no harmful effect on the hair or scalp.

The pharmacist can recommend 'Lorexane' to the public with absolute confidence in its safety and efficiency.

Available in bottles of 50 *c.c. in display outers of twelve, retailing at* 1/10*d. per bottle* (*including* 4*d. purchase tax*).

Ask for Supporting Display Material—
Display Stands
Counter Leaflets

'LOREXANE' HEAD LOTION

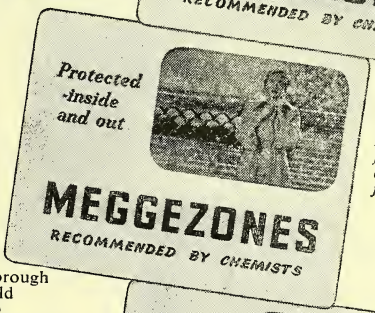
From your wholesaler or, in case of difficulty apply to your nearest I.C.I. Sales Office—London, Bristol, Birmingham, Manchester Glasgow, Edinburgh, Belfast and Dublin

IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED
A subsidiary company of Imperial Chemical Industries Limited **WILMSLOW, MANCHESTER**
Ph.83/1

HE HOUSE OF Meggeson PRESENTS

a new coloured filmlet advertising

MEGGEZONES



Three stills from the new coloured filmlet.

y week throughout the Autumn and Winter this Filmlet will be seen in the following towns:—

ENGLAND
Ashton-under-Lyne
Barnet
Barnsley
Barrow
Bath
Birkenhead
Birmingham
Blackburn
Bognor
Bolton
Bournemouth
Bradford
Brighton
Bristol
Bromley
Burnley
Bury
Chatham
Cheam
Cheltenham
Chester
Chesterfield
Chorley
Colchester
Coventry
Crewe
Croydon
Dagenham
Darlington
Derby
Doncaster
Dudley
Edgware
Falmouth
Folkestone
Gillingham
Gloucester
Grimsby
Guildford
Halifax
Hanley
Harrogate
Hastings
Hounslow
Hove
Huddersfield
Hull
Ipswich
Keighley
Kingston
Lancaster
Leamington
Leeds
Leicester
Leigh
Liverpool
London
Lowestoft
Luton
Manchester
Mansfield
Margate
Middlesbrough
Morecambe
Nelson
Newcastle
Northampton
Nottingham
Norwich
Nuneaton
Oldham
Paignton
Peterborough
Portsmouth
Plymouth
Reading
Rochdale
Rochester
Romford
Rotherham
St. Albans
St. Leonards
Sale
Salford
Scarborough
Sheffield
Sidcup
Smethwick
Southall
Southampton
Southend
South Shields
Stockport
Stoke
Sunderland
Surbiton
Sutton
Sutton Coldfield
Swindon
Taunton
Torquay
Twickenham
Wakefield
Wallasey
Walsall
Warrington
West Bromwich
West Hartlepool
Weymouth
Wigan
Witney
Worcester
York

SCOTLAND
Aberdeen
Ayr
Edinburgh
Glasgow
Greenock
Inverness
Kirkcaldy
Paisley
Perth

WALES
Barry
Cardiff
Colwyn Bay
Llanelly
Newport
Swansea

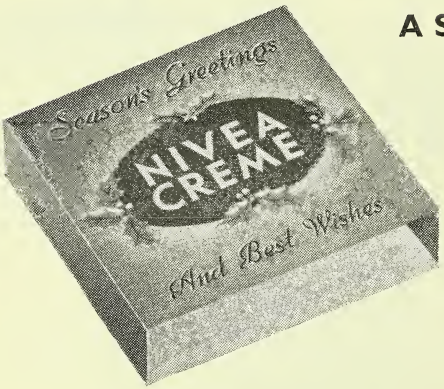
EIRE
Cork
Dublin
Limerick

This film advertising is in addition to the advertising in national and provincial newspapers which your customers will see. Be sure that you have stock.

MEGGESON & CO., LTD., LONDON, S.E.16

D

This will be a NIVEA Christmas !



A Sleeve wrapper to transfo the popular container

ONCE AGAIN...FREE WRAPP to convert standard Nivea packs Christmas. Smartly designed in at tive colours on a silver ground. over the popular size Nivea (2s. 3d. s Orders dispatched during Nover and December will include a supp wrappers. Wrappers also supplied arately to place over existing st These may be detached for after se trade.

and an exciting introduction . . .

the NIVEA Beauty Pack

LOVELY-TO-THE-TOUCH!

Developed specially for women who prefer their cream in an elegant jar for the dressing table. This newcomer to the Nivea range is brilliantly styled and unique in the field of cosmetics; moulded in Polythene, light, lovely-to-the-touch and unbreakable. It's a white, opaque "Poly-tainer" with fluted blue top. Supplies are available for Christmas Trade. Please order *early*. The new jar contains four ounces of Nivea Creme and retails at 8s. 4d. Trade Price, 40s. per dozen plus tax. *Special Beauty Pack advertisements are planned to appear shortly in selected women's magazines.*

THEY WILL SAY NIVEA . . . THIS YEAR

HERTS PHARMACEUTICALS LIMITED · WELWYN GARDEN CITY · HE

These are the months . . .

OCTOBER · NOVEMBER · DECEMBER

. . when the demand for 'SULFEX' soars

timely use of 'Sulfex' provides protection against secondary infection and shortens the course of the common cold. The earlier it is used the better the results; you can ensure that your customers suffer no delay by holding adequate stocks. Issued for prescription in 1-oz. bottles with dropper. Trade price 40/6 per doz. (exempt from Purchase Tax). 'Sulfex' is a Schedule IV preparation.

'SULFEX'

Check your stocks to-day

NLEY & JAMES, LTD., 123 COLDHARBOUR LANE, LONDON, S.E.5
Smith Kline & French International Co., owner of the trade mark 'Sulfex'
90.

APL FINE PRODUCTS

Fine products

BROMVALETONE

CARBROMAL

ACETYL CARBROMAL

AMBER PHARMACEUTICALS LTD

Manufacturers of Fine Chemicals and Pharmaceutical Products

BYRON HOUSE, 7-9 ST. JAMES'S STREET, LONDON, S.W.1

Constant and Steady SUPPORT for your SALES

Behind fast-moving 'ASPRO' sales is the stimulus of a continuous advertising campaign through Press, poster and cinema. The public want to know what a product is—what it does—and advertising tells them. It is this which makes all the difference between the worthwhile line and the "once-in-a-while" line. **It is this which creates an ever-greater public demand for 'ASPRO'.** You get the benefit of this demand to the full by continuously displaying 'ASPRO' in window or on counter. It is a fact that

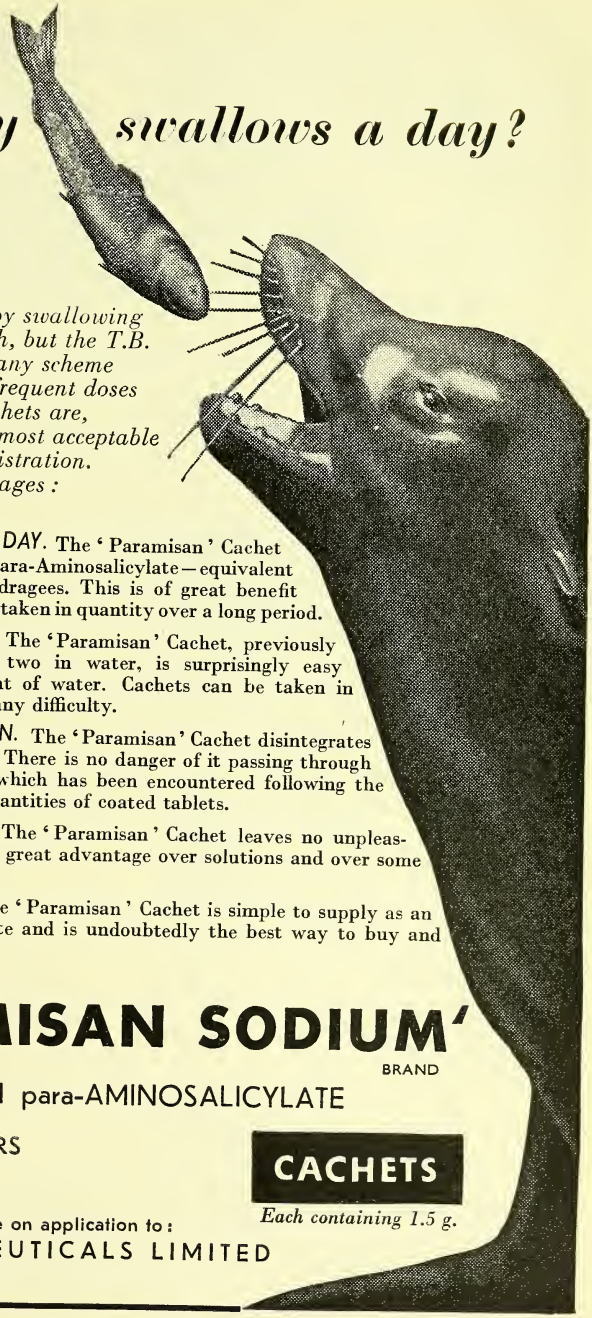
Made by ASPRO LTD., Slough, Bucks

ASPRO REG. TRADE MARK P.A.T.A.

'ASPRO'

DISPLAYS BRING IN NEW BUSINESS

How many swallows a day?



The sea lion may enjoy swallowing large quantities of fish, but the T.B. patient will welcome any scheme to help him with his frequent doses of 'Paramisan'. Cachets are, without question, the most acceptable method of oral administration. Consider these advantages:

LESS "SWALLOWS" PER DAY. The 'Paramisan' Cachet contains 1.5g. of Sodium para-Aminosalicylate—equivalent to nearly five tablets or dragees. This is of great benefit with a drug which must be taken in quantity over a long period.

EASY ADMINISTRATION. The 'Paramisan' Cachet, previously dipped for a second or two in water, is surprisingly easy to swallow with a draught of water. Cachets can be taken in quick succession without any difficulty.

CERTAIN DISINTEGRATION. The 'Paramisan' Cachet disintegrates quickly when swallowed. There is no danger of it passing through unabsorbed—a difficulty which has been encountered following the administration of large quantities of coated tablets.

NO UNPLEASANT TASTE. The 'Paramisan' Cachet leaves no unpleasant taste in the mouth—a great advantage over solutions and over some forms of granules.

ACCURATE DOSAGE. The 'Paramisan' Cachet is simple to supply as an accurate dose, avoids waste and is undoubtedly the best way to buy and administer P.A.S.

'PARAMISAN SODIUM'

TRADE MARK BRAND

SODIUM para-AMINOSALICYLATE

PACKED IN CONTAINERS of 100 and 500

CACHETS

Each containing 1.5 g.

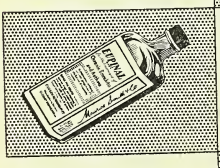
Literature and prices available on application to:
HERTS PHARMACEUTICALS LIMITED
Welwyn Garden City, England
G.M.56

Some profitable WINTER LINES

We show below a few of our lines particularly suitable for display during the Winter Season. All these are profitable and dependable.

QUINCABEL FOR COLDS
A profitable preparation and particularly effective. 2-oz. and 4-oz. Bottles.

PINAMINTS
Pleasant and popular Tablets. 2-oz. Cellophane wrapped Carton sells at **9d.**



EUPINAL
Proved very effective in forms of Asthma and Chronic Bronchitis and general heart tonic. 4 oz. **3/10½d.** and 8 oz. **6/10d.** Bottles.

VITALISER
Your own brand tonic packed under your own name and address. **12/-** doz. 8-oz. Bottles

"G.P." GERMICIDE
A modern non-toxic, non-staining antiseptic suitable for Medical, Surgical, Sickroom and General use. **1/3d.** and **2/-.**

THERMOID CREAM
Most effective for relief of Rheumatic and Nerve pains and Chest troubles. Non-greasy. **2/6d.** Tube. Packed 1-doz. with display outer.

CUXSON, GERRARD & CO. LTD.
OLDBURY . BIRMINGHAM

CLANOID

FLAVOURED
ESSENCE OF RENNET

RASPBERRY, STRAWBERRY, LEMON, ORANGE, VANILLA

1 OUNCE BOTTLES
sufficient for 8 pints of Junket

RETAIL
2/3
PER BOTTLE

JUNKET TABLETS

Each Tablet Sufficient to Junket One Quart of Milk

Packed in Boxes of 12 Tubes

Each Tube contains 16 Tablets

Retail Price 1/3 per tube

JUNKET POWDER

Packed in Boxes of 12 Tubes

Sufficient in each Tube to Junket 16 Quarts of Milk

Retail Price 1/3 per tube

SUPPLIES AVAILABLE

THE
Armour Laboratories
(ARMOUR AND COMPANY LTD.)
LINDSEY STREET · LONDON · E.C.1
Telephone - CLERKENWELL 9011
Telegrams "ARMOSATA-PHONE," LONDON

Why you should sell

WANDER BRAND

Malt & Cod Liver Oil

BECAUSE of its unsurpassed quality and its ready acceptance by the public, Wander Brand Malt Extract and Cod Liver Oil is a product which the pharmacist can recommend with full confidence, and in his own best interests.

Wander Brand Malt Extract and Cod Liver Oil is outstanding in its field and its pharmaceutical excellence is recognized by physicians. The Cod Liver Oil used is the best obtainable and the Malt Extract is specially prepared by A. Wander Ltd., who are leading authorities on its manufacture.

With its attractive appearance and toffee-like flavour, Wander Brand Malt Extract and Cod Liver Oil is thoroughly enjoyed by children and adults.

On the P.A.T.A.

Trade Prices: 1 lb. jars **18/9;** 2 lb. jars **35/-.**
(*Exempt from Purchase Tax.*)

Trade Prices for 1 gross 1 lb. or equivalent:
1 lb. jars **18/6;** 2 lb. jars **34/6.**
(*Exempt from Purchase Tax.*)

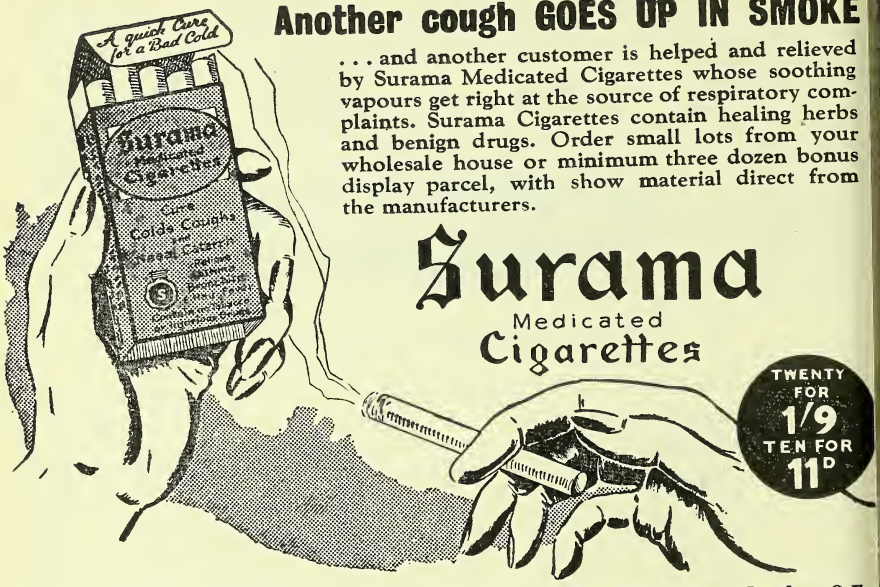
Retail Prices: 1 lb. jars **2/1;** 2 lb. jars **3/11½.**

NOTE: Also supplied, if required, with attractive labels bearing your own name, at competitive prices.

Attractive showcards available
For further details write to :
A. WANDER LTD., 42 Upper Grosvenor St., Grosvenor Sq., London, W.1

Another cough GOES UP IN SMOKE

. . . and another customer is helped and relieved by Surama Medicated Cigarettes whose soothing vapours get right at the source of respiratory complaints. Surama Cigarettes contain healing herbs and benign drugs. Order small lots from your wholesale house or minimum three dozen bonus display parcel, with show material direct from the manufacturers.



The Oatine Company (Opera Omnia Ltd. Proprietors) 44 Kennington Lane, London, S.E.1

DOCTORS ARE PRESCRIBING

Rx Cardophylin

TRADE MARK

(BRAND OF THEOPHYLLINE-ETHYLENEDIAMINE)

VASODILATOR · RESPIRATORY STIMULANT · DIURETIC

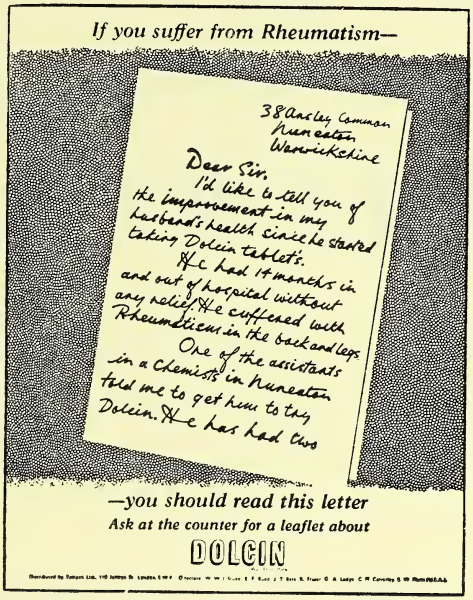
Cardophylin is the registered name of a brand of Theophylline-Ethylenediamine in the form of tablets, ampoules and suppositories.

A Whiffen product

Distributed by :

BENGER LABORATORIES LTD., HOLMES CHAPEL, CHESHIRE

AN UNUSUAL DISPLAY TO HELP YOUR DOLCIN SALES



Here is a new idea in showcard display. It is neat, dignified and takes up little space (dimensions 10″ x 8″).

A handwritten letter — copy of an actual testimonial sent in gratitude by a user of Dolcin, is attached to the card. We have obtained full permission for the letter to be used. Such testimonials come from all parts of the country. One of them may come from your area, and will therefore carry additional weight with your customers.

This card will be sent you on request, and where possible the letter attached will be from your town or district.

PRICES:

DOLCIN 100's 72/- per dozen plus 24/- P.T. (Retail 10/- per bot.)
DOLCIN 500's 324/- per dozen plus 108/- P.T. (Retail 45/- per bot.)
DOLCIN 600's (Dispensing) 31/6 per unit Plus 10/6 P.T.

Please order Dolcin from your wholesaler.

DOLCIN

Reg. Trade Mark

FOR AILMENTS IN THE RHEUMATIC GROUP

Sole Distributors: **Tampax Ltd., 110 Jermyn Street, London, S.W.I.**

Coughing . . .

IS RELIEVED BY

IPECOPAN

Ipecopan is an association of the alkaloids of ipecacuanha and opium which loosen bronchial secretion and provide sedation of the cough centre

SUPPLIED AS MALTED TABLETS AND ORAL SOLUTION

Literature and samples available on request

SANDOZ PRODUCTS LIMITED

134 Wigmore Street · London · W.1

Revised Retailer's Price List

FOR

VITAMIN C

Ribena

BLACKCURRANT JUICE

AS FROM 1st NOVEMBER, 1950

THROUGH WHOLESALERS		**31/-** per dozen net - 30 days.
DIRECT 6 DOZEN MINIMUM	Plus **Bonus** of 1 bottle per dozen free in exchange for 14 days Window Display	**30/3d.** per dozen net - 30 days.
DIRECT 12 DOZEN TO 120 DOZ.	Plus **Bonus** of 1 bottle per dozen free in exchange for 14 days Window Display (**Bonus** on orders in multiples of 6 doz. only).	**28/3d.** per dozen net - 30 days.
DIRECT 120 DOZEN & UPWARDS	Plus **Bonus** of 1 bottle per dozen free in exchange for 14 days Window Display (**Bonus** on orders in multiples of 6 doz. only).	**27/-** per dozen net - 30 days.

Packed 1 dozen bottles per carton
(**Bonus** packed ½ dozen bottles per carton)
Cartons and bottles non-returnable.

PRICE TO PUBLIC AS FROM 1st NOVEMBER, 1950

3/3d. PER BOTTLE.

REMEMBER • *Ribena sales have increased 16 times in 8 years* • **ARE YOU GETTING YOUR SHARE?**

NEW PACK • NEW DEEP DRAWN PILFER-PROOF TOP. *New display material available on request.*

H. W. CARTER & CO. LTD · THE ROYAL FOREST FACTORY
COLEFORD, GLOS. Telephone: Coleford 3201

GLYMIEL JELLY

BONUS *PARCELS*

SMALL SIZE TUBES **6/10** PER DOZ. LARGE SIZE TUBES **12/0** PER DOZ.

Plus Purchase Tax

BONUS 13 TO THE DOZEN FOR WINDOW DISPLAY

4 BONUS *PARCELS TO CHOOSE FROM*

(13 TO THE DOZEN IN ALL CASES)

PARCEL "A"	PARCEL "B"	PARCEL "C"	PARCEL "D"
8 doz. 1s. 4d. size	12 doz. 1s. 4d. size 1 doz. 2s. 4d. size	9 doz. 1s. 4d. size 3 doz. 2s. 4d. size	6 doz. 1s. 4d. siz 6 doz. 2s. 4d. siz

Full details from **SANGERS LTD.** 258 EUSTON ROAD, LONDON, N.W

Branches at BRISTOL and NEWCASTLE

FERBERS LTD
FERBERS LTD
FERBERS LTD
FERBERS LTD
FERBERS LTD
FERBERS LTD
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FERBERS LTD
FERBERS LTD
FERBERS LTD

VETERINARY MEDICINES

Be prepared for the extra veterinary business that will resu from the wet summer.

CARBON TETRACHLORIDE CAPSULES

The officially recognised remedy for Liver Fluke Disea (Liver Rot) in Sheep and Cattle. Capsules of 1 c.c., 2 c and 4 c.c. Packed in 12s., 25s., 50s., 100s. and bulk

OIL OF CHENOPODIUM CAPSULES

Indicated in the expulsion of Roundworms, Dwarf Tapewor and Hookworms. Anthelmintic. Capsules of 5 min. Pack in 24s., 36s., 50s., 100s. and bulk.

Prices and full details gladly send on request.

Ferbers Ltd

CARLTON WORKS . ASYLUM ROAD . LONDON . S.E.1

New Cross 0231/2

Established 18

P · A · T · A

PHYLLOSAN

CONSISTENT ADVERTISING
maintains steady demand

Best terms (on £2 parcels) yield OVER 30% PROFIT
(This product can be included in combined Beecham parcels)

A convenient and profitable line to handle
Attractive display material is available on request

Obtainable from the sole distributors in the British Isles
BEECHAMS PILLS LIMITED, ST. HELENS, LANCS
The registered trade mark ' Phyllosan ' is the property of
NATURAL CHEMICALS LTD, ST. HELENS, LANCS

A PUBLIC FAVOURITE

Stock up NOW for the Winter Peak!

The success of **BEECHAM'S POWDERS** is due to their unfailing efficacy, supported by consistent Press, Film, Outdoor and Point of Sale Advertising. Display **BEECHAM'S POWDERS** and you too will have a good share of this large Winter demand for a splendid product!

te for NEW
blay materials
t *your* public
w you sell
EECHAM'S
OWDERS!

P.A.T.A.

BEECHAMS PILLS LTD., ST. HELENS, LANCS

When it's Sundries Think of "Ritchies"!

A few samples from our range:

Arch Supports
Hypodermic Needles (Stainless)
Dressings of all types
Weighing Machines
Ramer Sponges
Spontex Sponges
Pill Boxes
Gillettes
Personna
Dunlopillo Cushions
Electric Blankets
Heat-Pads
"Agrippa" Teats
Feedrites
Dropper Bottles
Scissors of all Types

We stock Addis, Halex and Hygex Brushes

Scottish distributors of Plim Hypodermic Syringes

George B. Ritchie & Co
249 Buchanan St. Glasgow C.1
Tel: DOUglas 0532/3

For good healthy sales

made from fine Empire Wines with Meat Extract and Malt.

15/- *A BOTTLE*

Distributed to the Wholesale Wine Trade by Edward Young & Co. Ltd., of London, Liverpool and Glasgow and to Licensed Chemists by

BOVRIL LTD · 148 OLD STREET · LONDON · E.C.1.

Show 'Elasto'— It Sells on Sight

Elasto REGISTERED The Biochemic Tablet

ELASTO advertising is widespread and consistent. An ever increasing demand for this product is being created at your very door. Are you taking full advantage of this opportunity for new business created in your area by this vigorous campaign? 'Elasto' sales-aids displayed in your window or on your counter will convert the 'prospect' we have created into a customer for you. And remember repeats and recommendations come freely from initial sales of 'Elasto'.

'ELASTO'
CECIL HOUSE · HOLBORN VIADUCT LONDON

GUM TRAGACANTH

GUM KARAYA
WHOLE AND POWDERED

M. HAMBURGER & SONS
DIRECT IMPORTERS
Ceylon House
EASTCHEAP, LONDON, E.C.3
Telephone: Mansion House 4405 (3 lines)

ON EVERYBODY'S TONGUE THIS WINTER!

Nipits

The Popular Medicated Pastilles
FOR VOICE, THROAT & CHEST
TEASDALE & CO. LTD., CARLISLE

A DISTINGUISHED NEW SALES WINNER!

★ ★ ★ ★ **JAFFAJUCE** ★ ★ ★ ★

resents the THREESOME

★ ★ ★ ★ ★ ★ ★

IDEAL FOR GIFTS!

APPEALS TO ALL TASTES!

omprising 3 flavours

ORANGE · LIME GRAPEFRUIT

ttractive new coloured rtons

WONDERFUL VALUE!

RETAILING AT **6/-** COMPLETE

DELICIOUS VARIETIES ON A PECIAL FITTING TRAY— ASILY CARRIED IN ONE HAND

urry! **ORDER NOW**

r through your usual wholesaler

se of difficulty write to:

AJUCE L MITED

egent Street, London, W.1

FFAJUCE LTD., ● LONDON AND GLASGOW

The Fancy Goods Association

requests the pleasure of the company of

Mr. EVERY BUYER

on the occasion of the

Second Annual Fancy Goods Fair

to be held at

The Queen Hotel, Harrogate

January 8th-12th (inc.) 1951, where he will see all that is best in

Fancy Goods, Brushware, Leather Goods, etc.

R.S.V.P. to :— *P. BURNS FARQUHAR, Esq., Fair Secretary*
27 FREDERICK STREET, BIRMINGHAM, 1

for information re travel facilities, accommodation, etc.

The **ALLIED** DRUG & CHEMICAL CO.
ROBERT STREET, N.W.1

have pleasure in announcing that they will be happy to fill their customers' needs in all

DRUGS
CHEMICALS AND
TABLETS . . .

from now on

Your customers' winter friend

POWERFUL NATIONAL ADVERTISING lends strength to your Zubes Cough Mixture display. Millions of newspaper readers will be reminded once again that nothing can beat Zubes Cough Mixture. Keep your stock high for good profit—quick turnover!

ZUBES

COUGH MIXTURE

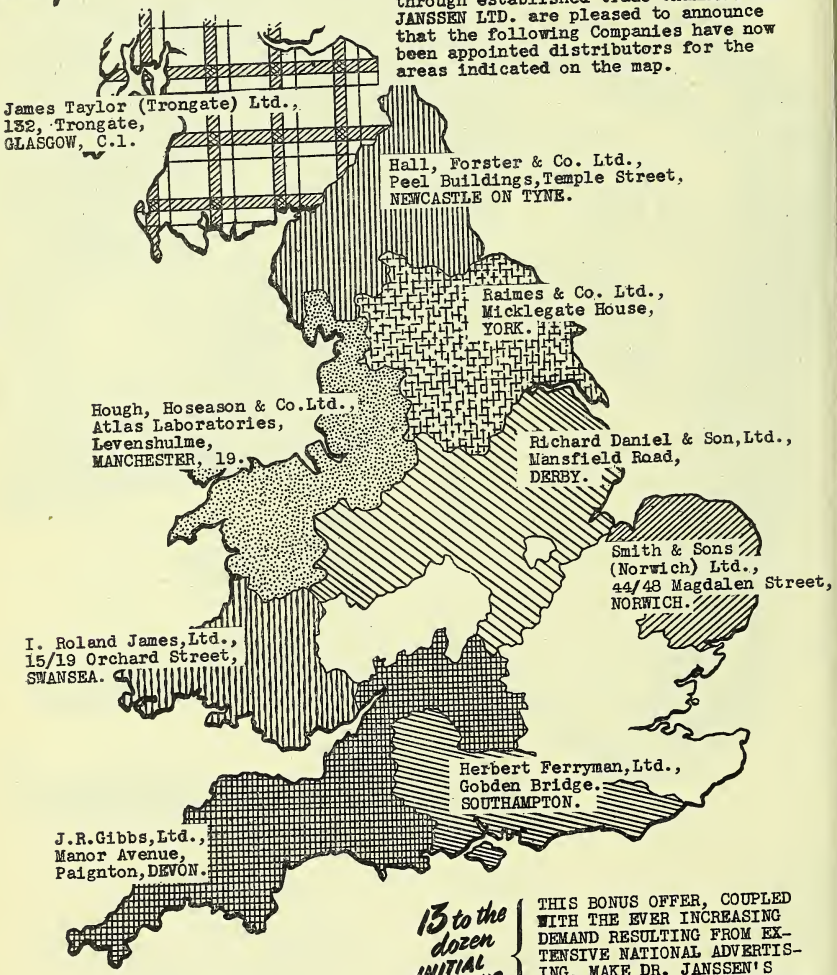
Retailing at 1/6d. and 2/9½d.

MANUFACTURED BY F. W. HAMPSHIRE & CO. LTD., SUNNYDALE, DERBY.

E

Important Trade Announcement

In pursuance of their policy of selling through established trade channels DR. JANSSEN LTD. are pleased to announce that the following Companies have now been appointed distributors for the areas indicated on the map.



13 to the dozen INITIAL BONUS OFFER

THIS BONUS OFFER, COUPLED WITH THE EVER INCREASING DEMAND RESULTING FROM EXTENSIVE NATIONAL ADVERTISING, MAKE DR. JANSSEN'S A "MUST" TO ALL PROGRESSIVE CHEMISTS.

DR JANSSEN'S HERBAL TABLETS

DR. JANSSEN LTD. 37B NEW CAVENDISH STREET · LONDON · W.1

"Q.A." BRAND

Quick Acting Aspirin Tablets

The majority of people undoubtedly show a lively sense of discrimination when buying medicinal products.

The association of a particular quality with a branded Aspirin Tablet is a valuable factor of goodwill, the customer preferring to repeat the purchase of a recognised brand of proved worth.

Q.A. Aspirin Tablets have long been known for their high quality, and particularly for their rapid disintegration. 'They disintegrate immediately they are swallowed and begin to take effect at once.'

It pays in profits and repeat sales to offer Q.A. Brand whenever Aspirin Tablets are desired. The growing preference for Q.A. is quickly manifest.

Retail prices 1/- and 2/6d.

Advantageous quantity and contract terms are offered. Display cartons and showcards are available. Window displays can be arranged.

SOLE MAKERS :—

THOMPSON & CAPPER WHOLESALE LTD

SPEKE HALL ROAD, LIVERPOOL, 19.

FOR INFECTIOUS SORE THROAT

FORMALGAR

TRADE MARK

CONCENTRATED GARGLE AND MOUTH WASH

This preparation contains Formalin, Glyc. Phenolis, Tinct. Pyrethri, Chlor-oxylenol, etc., and when diluted in the proportion of one teaspoonful in a tumbler of water forms a pleasant gargle for infectious sore throat, or an antiseptic mouth wash, especially after extractions.

In ribbed oval bottles of 2, 4 and 8 fl. ozs.

2 oz. Cost 10/6 doz. plus P. Tax 3/6. Retail 1/6 each.

4 oz. Cost 18/- doz. plus P. Tax 6/-. Retail 2/9 each.

Also clear glass bottles of 20 and 90 fl. ozs. for dispensing.

These prices apply in the United Kingdom only

Literature from

C. J. HEWLETT & SON, LTD.

35-43 CHARLOTTE ROAD, LONDON, E.C.2

also at 216 Orr Street, Glasgow, S.E.

Sales of Owbridge's

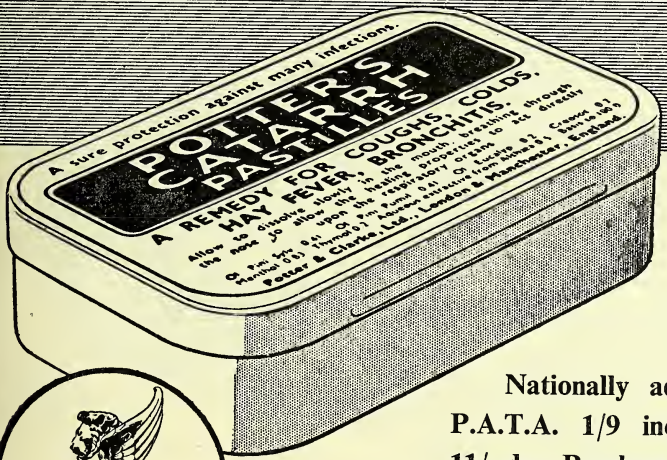
LUNG TONIC

SOAR

Sales of OWBRIDGE's LUNG TONIC are still increasing. A record number of orders has been received during the past summer months. When you buy OWBRIDGE's you are assured that it will move quickly from your shelves. OWBRIDGE's LUNG TONIC sells throughout the world to all classes of people.

The family remedy for 76 years

PASTILLES *with a* PROFIT...



Nationally advertised.

P.A.T.A. 1/9 including P.T.

11/- doz. Purchase Tax 3/8 doz.

BONUS TERMS FOR WINDOW DISPLAY

POTTER & CLARKE LTD

60-64 ARTILLERY LANE, LONDON, E.1

Phone: BISHOPSGATE 4761. Grams: Horehound, 'Phone, London.

77 DANTZIC STREET, MANCHESTER, 4

Phone: BLACKFRIARS 8734. Grams: Horehound, Manchester.

62 ORBISTON STREET, MOTHERWELL

Phone: MOTHERWELL 1413. Grams: Horehound, Motherwell.

Agent in Northern Ireland:—

HAROLD MITCHELL & CO. LTD., 321 GROSVENOR ROAD, BELFAST. Telephone: 24356

STOCK UP FOR RECORD Toni SALES THIS CHRISTMAS

Your Toni sales will be breaking all records this Christmas. One reason is the natural desire of all women for their hair to look its best over the holiday. Another is the suitability of Toni as a Christmas present. But above all, Toni sales are going to be backed by the heaviest concentration of pre-Christmas advertising in the history of Toni in this country.

Make sure YOU profit from this extra Toni publicity !

Attractive Toni display material is available. Use it to tie-in your window and counter display with the extra Toni advertising.

NEW REDUCED PRICES

The Complete Toni Range

SPIN Curler Kit.....**12/-** **Standard Kit**.....**9/-**

Refill Kit *(whole head)*.....**6/-** **Junior Refill** *(for odd end curls)* **4/-**

(Prices include tax)

FEATURE Toni

for peak sales in December

PRODUCTS OF THE TONI DIVISION OF GILLETTE, ISLEWORTH, MIDDLESEX

A PRODUCT WITH A PEDIGREE

e chemist who recommends 'Tabloid' brand Aspirin deserves well of his customers. ause it is prepared to undeviating standards, this fine product is unvarying in purity, cision and promptness of effect.

nstant in quality, 'Tabloid' brand Aspirin is equally consistent in the steady tide of iness it brings to retail pharmacies. For close on fifty years it has been a trusted standby ountless thousands of homes. Attractive showcards, display-outers and crowner cards all available to stimulate your sales. Special bonus terms give *fourteen* to the dozen on ozen assorted lots ; or *thirteen* to the dozen on 3 dozen assorted. In bottles of 25 and selling at 1/- plus 3d. tax and 2/10 plus 8½d. tax respectively.

'TABLOID' BRAND ASPIRIN

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When the Weather indicates...

"Goodbye to Summer"

It is time to lay in stocks of remedies for coughs and colds. We have anticipated a wider demand for the original "Gee's Linctus Pastilles" by increasing production but supplies are not unlimited. Early orders will receive speedy attention and with each order for 3 doz. tins 2 new show cards for counter and window display will be sent. Each doz. tins are packed in an attractive display outer.

Price 10/- per doz. plus Purchase Tax.

WARRICK'S

Gee's Linctus PASTILLES

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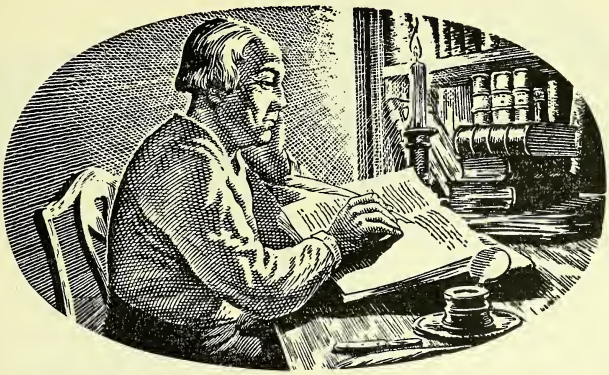

And then the aether which I made,
Claimed nearly all the aether trade
Throughout the trading nation;
And I with confidence might say,
That none before me knew the way
To do the operation.

Thus in light-hearted doggerel verse Joseph Jewell (Luke Howard's foreman and later his partner) recorded his numerous and important chemical achievements. Luke, however, was less carefree in his method of expression. Ever since 1797, when he founded the firm of Howards, he recorded in great detail and with the utmost precision every laboratory experiment and every production process. The accuracy of his methods and the extreme care with which he recorded his work and his discoveries formed the foundation of Howards' character today—manufacturers of the finest chemicals.

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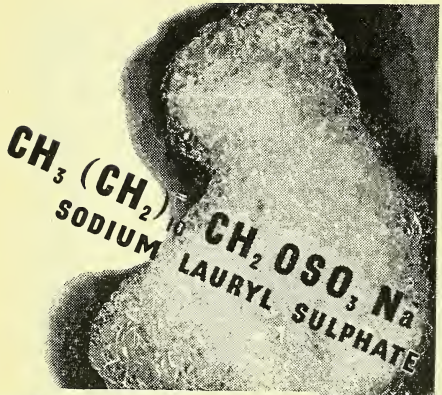

EMPICOL L.Z. POWDER

Chemical Nature Sodium Lauryl Sulphate.

Active Matter and Composition 90% Sodium Alkyl Sulphate. Free Fatty Alcohol—not more than 2%. Water not more than 3%. Inorganic Salts—not more than 8%.

Appearance Spray dried white powder.

Packing Waterproof paper-lined hessian bags or fibre board drums.

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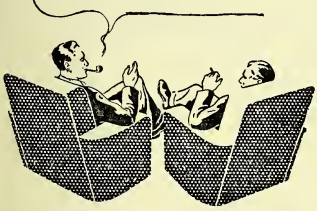

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For use with open end towards the head of the patient. Tapered edges prevent any jar should patient slip off cushion. Should be placed in a light cover or pillow-case during use.

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6 oz. Best
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ELASTIC & WATERPROOF
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In pocket size tins and in attractive display outers

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THE Boxed TOILET ROLL

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HOWARD LLOYD

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THE ANSWER IS

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★ *The best-known hair dye all over the world*

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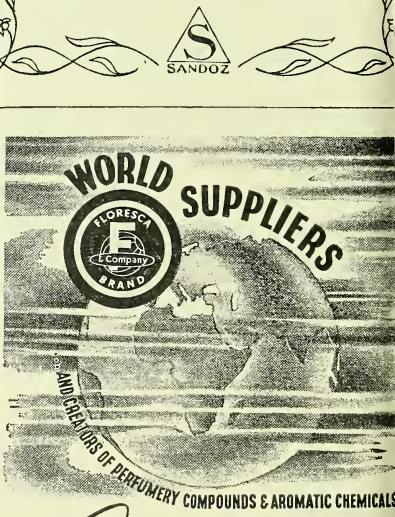

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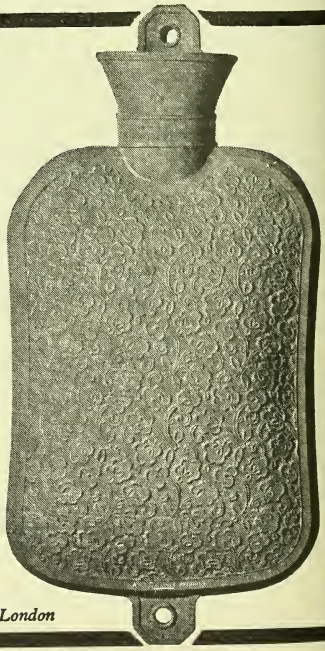

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A NUCTA SPECIALITY PRODUCT

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25/- per doz. plus tax

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Now women want the same exquisite perfume in their other toilet goods as well. One steady sale leads to another. One Blue Orchid display in your window sells four profitable lines — it's as simple as that!

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LANOLIN SHAVING CREAM	2/-	1	13/6	3	12/9	6	12/-	4/6	33⅓%
LANOLIN SHAVING STICK: (Cased)	1/9	1	11/10	3	11/6	6	11/2	3/11⅓	33⅓%
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Does not contain any Scheduled Poison

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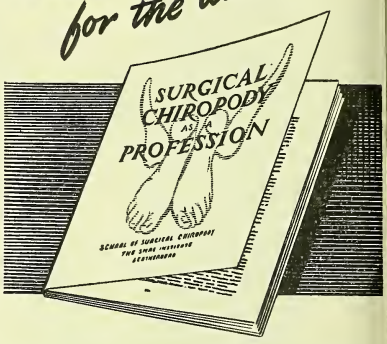

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"If people take the points I shall make about nutrition, I won't be half so busy, but my good friends the Chemists will."

a new BEMAX *series in the Radio Times*

... ALL IN A DOCTOR'S DAY

The **most advanced** type of first aid dressing

DEVELOPMENTS in first aid dressings have been rapid in recent years. The most dvanced type, widely used by doctors, hos- tals, and first aid posts in factories, is almas.

Dalmas dressings provide complete pro- ction for cuts, grazes, and slight wounds. almas dressings keep out water, dirt, rease, and acid. They allow free movement, nd can even be worn while washing!

Dalmas stretches in every direction, and e edges stick tight, cannot fray or catch in othes. It lessens risk of infection and pro- otes safe and easy healing. Skin-coloured, that it hardly shows, Dalmas is the perfect rst aid dressing for everyone.

Supplied in blue-and-white counter sell- uts, containing two dozen 1/- boxes; price 4 per dozen with special quantity-discounts.

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LEICESTER
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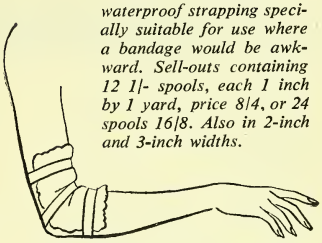
DALMAS PRODUCTS

YOU WILL WANT TO STOCK:



Dalmas Strapping. *A waterproof strapping specially suitable for use where a bandage would be awkward. Sell-outs containing 12 1/- spools, each 1 inch by 1 yard, price 8/4, or 24 spools 16/8. Also in 2-inch and 3-inch widths.*

Dalmas Heel Dressings. *A new waterproof dressing for sore or blistered heels. Handy boxes, price 1/- retail.*

Dalmas Finger-Tip Dressings. *A new waterproof protection to stick over cracked, cut, or sore finger-tips. Boxes 8/4 per dozen, to retail at 1/- each.*

Dalmas Boil Plasters. *A new waterproof skin-coloured dressing to protect boils. Handy boxes, price 1/- retail.*

London Depot: 140-142 St. John Street, E.C.1 (Clerkenwell 3399)
Leeds Depot: 14 Neville Street (Leeds 29764)
Scottish Agents:
Robert Telford, 29 Waterloo Street, Glasgow, C.2 (Central 2716)

EDME "Autumn Sun"

EXTRACT OF MALT
WITH COD LIVER OIL (B.P.)
WITH FLAVOURING

THE CHOICE OF THE FIRST CLASS CHEMIST

EDME LIMITED, IMPERIAL HOUSE, 84-86, REGENT STREET, LONDON, W.
Phone: Regent 5563-4. Grams: Edme, Piccy, London. Works: Mistley, Essex

SLEEPAX

REGD.

(PULV. VALERIAN gr. 1½; Ext. Lupul. gr. 3/5; Ext. Lactuc gr. 9/20; Carbrom gr. 1.0; Bromisovalerylurea gr. 1.0)

says what it does

(NON-HABIT FORMING SLEEP INDUCING TABLETS)

and

does what it says

ORDER A ONE DOZEN DISPLAY OUTER FOR YOUR COUNTER

Retail Price	Trade Price	P.T.	BONUS PRICE
inc. P.T. per tube	*per doz.*	*per doz.*	*per doz.*
3/8	24/-	8/-	22/- *(plus 8/- P.T.)*

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Be ready for the CHRISTMAS rush

Order your Enka TOILET SPONGES NOW

nka Sponges are good sellers all the year round. ut they enjoy an even greater popularity at hristmas as highly acceptable 'extra' gifts—fancy et useful, colourful and gay. But don't defer dering your stocks till the onset of the Christmas ush—place your orders NOW! Enka Sponges e obtainable from your usual wholesaler—in tractive sales-making show outers.

3 ATTRACTIVE PASTEL SHADES

nka Sponges are made pink, blue or green—from pure cellulose

CONTAINS NO RUBBER

Enka SPONGE ALWAYS THIRSTY FOR WORK

DOES EVERYTHING A SPONGE DOES—BETTER

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Always popular

There's no chance of Andrews being pushed into the background by not-quite-so-good imitations. You *know* when you put Andrews on your counter that it has the goodwill of the public and will always sell. Andrews is popular because

Its formula is ideal — and unique

It reaches the user in perfect condition

It is nationally advertised

So stock up well with

ANDREWS

FOR

Inner Cleanliness

(GT. 18)

Esbron LUNG TONIC & TROCHES

For Coughs, Colds, Chest and Throat Ailments and also for Asthma and Bronchitis.

It is advisable to get stocks in now — ready for the winter demand.

9/- per doz. Retail 1/4½ each.
3 doz. lots 8/9 per doz.

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GALENICALS
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Our own vans cover the Midlands . . .

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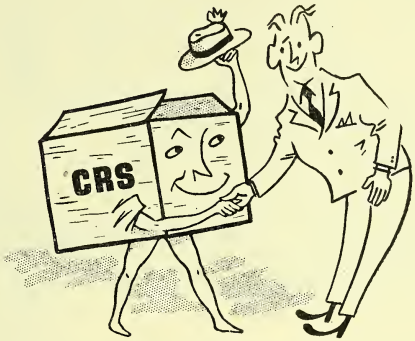


We wish those Containers

Many Happy Returns

We really do welcome back your containers.

They can be used again.

It is a grand help to the deliveries of further supplies.

Look after your C.R.S containers and you will be helping to close the dollar gap.

CONTAINER RECOVERY HELPS NATIONAL RECOVERY

Container Recovery Service

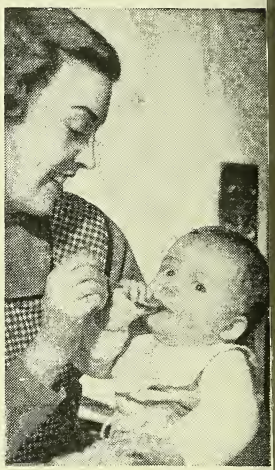
S.P.D. Limited, 3-5 Salisbury Square, London, E.C.4

CRS 63-19

Why these strained foods are better than home-prepared

IN PREPARING STRAINED FOODS, a mother, however careful, is likely to lose valuable nutrients by cooking in open saucepans, and by over-cooking. Instead of sieving she often mashes the foods, leaving indigestible lumps.

The vegetables and fruits in Heinz Strained Foods are grown in the famous market-garden area of Ormskirk near their Standish Factory. The foods are cooked by the methods that retain their maximum nutritional value, and sieved to the correct consistency for the infant's digestion and bowel.

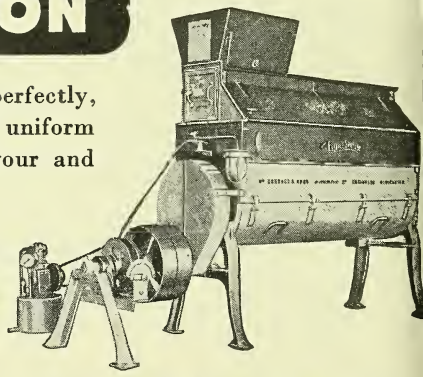


You can therefore recommend HEINZ STRAINED FOODS to mothers with complete confidence

H. J. Heinz Company Ltd
Harlesden, London, N.W.10.

A PERFECT COMBINATION

Whilst sifting and mixing powders perfectly, the Sprayer attachment allows the uniform addition of moisture or liquid flavour and perfume.



GARDNER'S

PATENT 'RAPID'

SIFTER & MIXER

WITH SPRAYER ATTACHMENT

WM. GARDNER & SONS (GLOS.) LTD.
BRISTOL ROAD · GLOUCESTER
Phone: Gloucester 21261 Grams: "Gardner, Gloucester"

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Telephone CHAncery 7347

3 NEW DRUG TARIFF LINES—*from December 1st.*

☆ **ELASTOCREPE**
is "COTTON CREPE" BANDAGE

☆ **VISCOPASTE**
is ZINC PASTE BANDAGE (Drug Tariff)

☆ **ICHTHOPASTE**
is ZINC PASTE and ICHTHAMMOL BANDAGE

Will be included on the N·H·S

Order stocks NOW to meet all scripts!

Elastocrepe "Cotton Crepe" Bandage will from December 1st, be packed in sealed wrappers in accordance with the specification of the Drug Tariff. Both Viscopaste and Ichthopaste in existing packings may, from December 1st, be dispensed against N.H.S. scripts.

TRADE TERMS: *Viscopaste and Ichthopaste,* **25/9** *per doz. Elastocrepe, two and half inches* **21/-** *doz; three inches* **25/-** *doz.*

Order supplies through your usual wholesaler, or write direct to:—
T. J. SMITH & NEPHEW LIMITED, HULL

BIOLOGICAL MBL PREPARATION

THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTE IDENTICAL WITH THAT OF PRE-WAR PREPARATIC

because of our heavy purchases immediately before war broke out. Our stoc are still considerable and the high MBL standard will be fully maintaine

THERE IS NO SHORTAGE OF ANY OF OUR PREPARATIOI

	Retail Prices (inclusive of Tax)	CHEMISTS' PRICE Per unit Net +	Purchase Tax	Per dozen Net +	Purch Tax
ANTIPEOL					
OINTMENT 4 oz. tube	7/5	4/2½ +	1/5	50/5 +	16/
40 gr. „	3/8½	2/1½ +	8½	25/3 +	8/
20 gr. „	2/1	1/2 +	5	14/- +	4/
LIQUID 40 c.c. bottle	3/8½	2/1½ +	8½	25/3 +	8/
OPHTHALMO-ANTIPEOL					
20 gr. Nozzled Tube	3/8½	2/1½ +	8½	25/3 +	8/
8 gr. „ „	1/9	1/- +	4	11/11 +	4/
RHINO-ANTIPEOL					
20 gr. Nozzled Tube	3/1	1/9 +	7	21/- +	7/
8 gr. „ „	1/9	1/- +	4	11/11 +	4/
ENTEROFAGOS					
Box of 50 ampoules	19/-	13/3½	None	159/7	No
„ 10 „	4/3	3/-	None	35/8	No
„ 5 „	2/6	1/9	None	21/-	No
DETENSYL					
Tin of 500 tablets	43/-	24/- +	8/-	288/- +	96/
Tube of 50 „	4/11	2/8½ +	11	32/4 +	10/
ST. JAMES' BALM					
Tin of approx. 2½ oz.	3/1½	1/11 +	7½	22/6 +	7/
„ „ 1 oz.	1/7	11 +	4	11/3 +	3/

Carriage paid on all orders of 1 dozen or £1 and over.
Terms : NETT, Monthly Account.

MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.

Always warmly received

VINGS OF SLEEP"
Cherry, Green Blue.

NORTH BRITISH
Fabric Bottle in Drab or Red.

"EDINA"
With Protective Flap. In Cherry, Green or Blue.

NORTH BRITISH

HOT WATER BOTTLES

PACKED IN TRANSPARENT ENVELOPE

Order through your wholesaler

E NORTH BRITISH RUBBER CO., LTD., EDINBURGH, LONDON & BRANCHES

THE BARTLETT SERIES of the *Perfect Eyebrow Pencil*

BLACK
LIGHT BROWN
DARK BROWN

4/- dozen plus Purchase Tax
Fixed price to public 10d. each

ORDER FROM YOUR USUAL WHOLESALER

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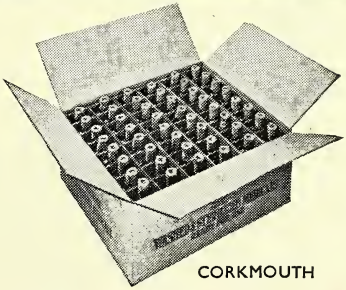
The Complete Service

WASHED AND STERILIZED READY FOR USE

FITTED KORKALITE, OULDED OR ALUMINIUM CAPS



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UNITED GLASS BOTTLE MANUFACTURERS LTD.

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invite your enquiries and should pleased to send one of our repre-tatives to call upon you.

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For the sickroom, Zoflora can be recommended for the dual purpose of purifying the air and, with its pleasantly refreshing perfume, it is conducive to untroubled sleep.

A splendid seller in all seasons, for the home, the hospital and public rooms of every kind.

Zoflora

perfumed

DISINFECTANT

is a preparation of antiseptic floral oils and synthetics, to be diluted with water for spraying.

Retail Prices: In bottles, 2/-, 7/- and 13/6.

Also complete spraying outfits 10/- and 21/-

Usual Trade Discounts

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THORNTON AND ROSS LTD. HUDDERSFIELD ENGLAND

CALCIUM GLUCONATE
CITRIC ACID
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LITHIUM BENZOATE
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MANUFACTURING CHEMISTS, ESTABLISHED 1870

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Eyebaths

of superlative quality and design in White Flint, Actinic Green or Deep Blue.

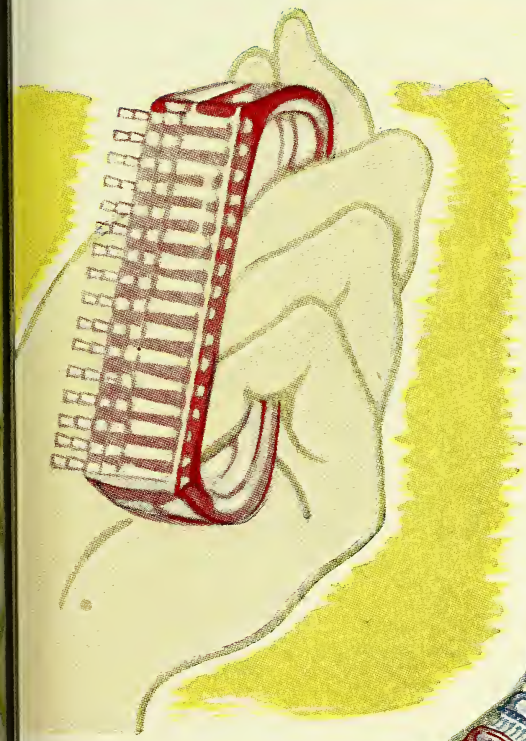
fashioned in glass by

WOOD BROTHERS

of Barnsley in Yorkshire

Makers of fine glassware since the year 1828

Swift-sale GRIPPY



Yes, sales are quick when you put Grippy, the nailbrush with a nickname, on your counter. Moulded to fit your hand, never-slip, ever-grip Grippy comes in 3 entrancing colours and a smart counter sell-out. So, if you want hot-cake sales, stock up with Grippy.

The price to you is 25/10 per doz. (*plus pur. tax*).

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E BY *Addis* THE WISDOM PEOPLE
AKERS OF FINE BRUSHES SINCE 1780

Addis Ltd.
Brush Works,
Hertford

You pay only £8.15.0 for an I.C.C £10 parcel

INTERNATIONAL CHEMICAL COMPANY LIMITE

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C.C. Mixed Parcels carry extra iscounts of 12½% on parcels to e value of £10 and over, 10% on arcels to the value of £5 and ver. These Co-operation Dis-ounts are *in addition to the usual asic trade discounts.*

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tudy our Price List, work out parcel to suit your require-ents and . . .
END YOUR ORDER NOW

Your Return . . £13.6 .8
Your Outlay
(£10 less 12½%) £8.15.0
Your Profit . . . £4.11.8

All I.C.C. Products can earn extra Co-operation Discount

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1/8	'Anadin' Tablets 20s	12/-	4/-
3/4	'Anadin' Tablets 50s	24/-	8/-
1/9	'BiSoDoL' Powder	12/9	4/3
4/1	'BiSoDoL' Powder	29/3	9/9
1/4	'BiSoDoL' Tablets 30s	9/9	3/3
3/7	'BiSoDoL' Tablets 100s	26/-	8/8
1/9	'Bisurated' Magnesia Powder (Plain or Mint)	12/9	4/3
3/7	'Bisurated' Magnesia Powder (Plain or Mint)	26/-	8/8
1/9	'Bisurated' Magnesia Tablets 75s	12/9	4/3
3/7	'Bisurated' Magnesia Tablets 165s	26/-	8/8
1/10½	'Freezone' Corn Remover	13/6	4/6
1/3	'Kolynos' Dental Cream	9/-	3/-
2/2	'Kolynos' Dental Cream	15/9	5/3
1/3	'Kolynos' Denture Powder	9/-	3/-
2/2	'Kolynos' Denture Powder	15/9	5/3
1/6	'Kolynos' Denture Fixative	13/6	*
3/9	'Kolynos' Denture Fixative	33/9	*
2/6	'Kolynos' Shaving Cream	18/-	6/-
2/9½	'Lystone' Salts	19/9	6/7
1/11	'Pineate' Honey Cough-Syrup	13/9	4/7
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**Exempt from P.T.*

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for White Flint Glass Containers of Quality
for delivery from stock, in convenient easily-handled cartons

DISPENSING BOTTLES
1-oz. to 20-oz. Plain—Cork Mouth or Screw. Graduated — Cork Mouth only.

RIBBED OVALS
Cork Mouth or Screw.

VIALS
½-oz. 1-oz. 1½-oz. 2-oz. 3-oz. Medium or Tall.

TABLET BOTTLES
Nos. 1 to 7½ sizes.

ROUND SCREW JARS
½-oz. 1-oz. 2-oz. 4-oz. Also Round Squat Screw Jars 1¼-oz., 2½-oz. & 4-oz.

SCREW CAPS
Black Bakelite, White Enamelled Tinplate and Satin Finish Aluminium.

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WHOLESALE ONLY

TRADE MARK

Brushes by Hughes makers of the famous "Luxury" Hair Brush

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OF NEW AUTUMN RANGE

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Luxury" LADIES' HAIR BRUSH★★
adial type, nylon filled, in crystal and three transparent pastel ades .. .. **65/-** RETAIL PER DOZEN

"Luxury" DRESSING COMB
Iedium, with handle matching "Luxury" Brush, in the same ur pastel shades .. .. **14/8** RETAIL PER DOZEN

Jewel" LADIES' HAIR BRUSH, PURE BRISTLE
adial type, with graceful octagonal handle, in crystal and three ansparent pastel shades .. .. **160/-** RETAIL PER DOZEN
Also nylon filled **81/6** RETAIL PER DOZEN

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ylon filled, in four translucent colours. In unique gift casket **75/-** RETAIL PER DOZEN

Toddler's" CHILDS' HAIR BRUSH
r one-year-olds and upwards, medium-soft nylon filled, in crystal d three transparent colours .. .. **49/-** RETAIL PER DOZEN

MINI-KIT" Brush Set
iniature Hair Brush (nylon filled), Clothes Brush and Comb, in ystal only. Complete in soft, smart Red or Royal Blue plastic pered case **103/7** RETAIL PER DOZEN

Purchase Tax Extra on all these prices

Display Stands available

Brochure and Price List on application. Stocks of HUGHES BRUSHES. "MINI-KIT" and COMBS are obtainable from all leading wholesale sundriesmen, or direct from

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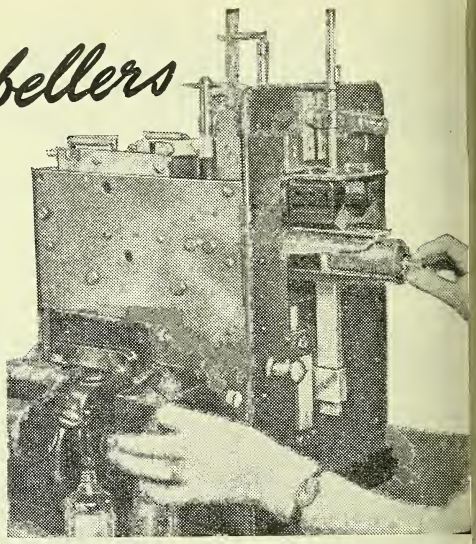
the NEWMAN

6 Point Labellers



COMPACT—Portable and sturdy.

ABSOLUTE PRECISION—Every label plumb centre.

SMOOTH RUNNING — Practically silent—bottles cannot jam. Safe and easy to operate.

MAXIMUM OUTPUT—2,400 bottles labelled every 60 minutes.

VERY SIMPLE MAINTENANCE—Gives continuous performance.

GUARANTEED—Such is our confidence in the workmanship put into these machines that we give a year's guarantee.

NEWMAN LABELLERS

There are other Newman Labellers for all-over gumming and an Automatic Machine for completely or partly labelling small cylindrical objects from $\frac{3}{8}$" to $1\frac{3}{8}$" diam. Details on reques

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(Abietis, Pumilionis)

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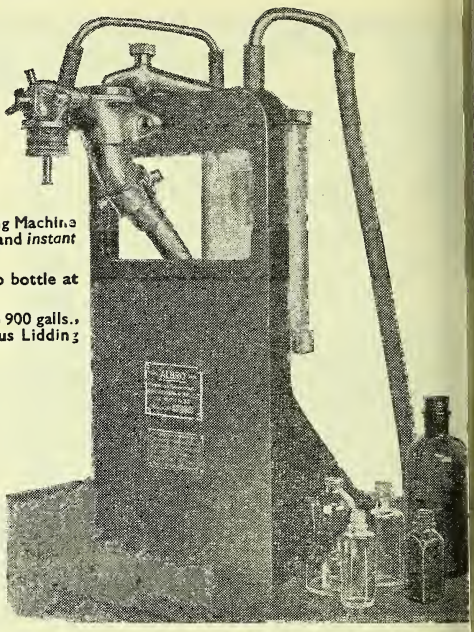
A wealth of experience backs our ability to produce exacting Floral odours and intricate bouquets. We cater for your special needs.
☆ Write for samples and prices. ★

CHAS. ZIMMERMANN & CO. LTD
DEGA WORKS, WALMGATE RD, PERIVALE, GREENFORD, MIDDX.
Phone: PERIVALE 9121 (4 Lines). Grams: ACIDOLAN. GREENFORD-MIDDX

SPILL proof FILLING!



Vacuum operated—Albro's Junior type Bottle Filling Machine for small bottles, ensures exact level, dripless filling and *instant rejection of cracked or damaged bottles!*

Thick or thin liquids are filled direct from bulk to bottle at outputs from 8 to 10 gross per hour

ALBRO FILLERS are available in all capacities up to 900 galls. per hour. Rotary Fillers, Powder Fillers, Continuous Lidding Machines, etc. Full details on request.

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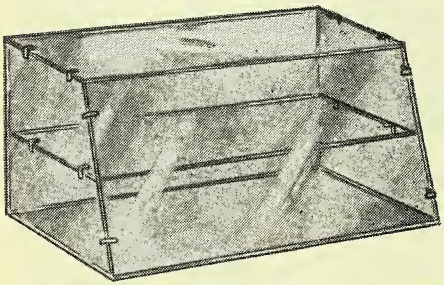
ALBRO FILLERS & ENGINEERING CO. LTD.
WHARF ROAD, PONDERS END, ENFIELD, MIDDLESEX Tel.: HOWard 2622 (3 line

SLOPING FRONT CASES



These soundly constructed glass display cases with chrome fittings show off your goods to advantage and assist quick counter service. (They also prevent pilfering).

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24" long x 12" high x 12" wide	75/-
30" " x 12" " x 12" "	82/-
36" " x 15" " x 12" "	95/-

(all the above have a 9" top and one shelf)

Other styles can be supplied. Please write for details.

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Only Address: ALDERSGATE WORKS, FELSHAM ROAD, LONDON, S.W.15. *Phone: PUTney 7711*

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AGITATOR-EMULSIFIER
LABORATORY MODEL SL-A

All Stainless Steel Contact with Fluid

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Built-in Control gives speed variation between 20 and 2000 r.p.m.

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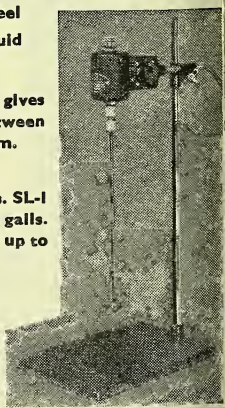
Also larger models. SL-I for vessels up to 5 galls. and S.C. for vessels up to 500 galls.



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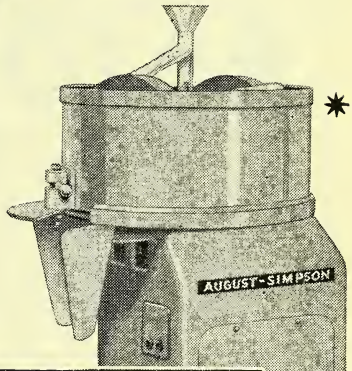
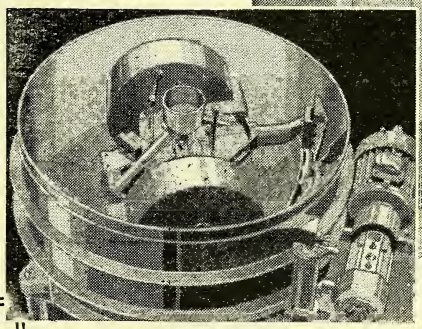
Phone: ENT 2565

AUGUST-SIMPSON MIX-MULLERS *for* 100 *needs*

For all types of mixing problems in the Chemical Industry handling dry, semi-plastic and pasty materials, here is specialist equipment to meet your specific requirements.





GUST-SIMPSON MIX-MULLERS N BE SUPPLIED:—

- in capacity ranges from 1/10 cu. ft. to over 20 cu. ft. per batch.
- in corrosion resistant material.
- with different weights of mullers.
- with heating and cooling jackets.
- with vacuum attachment, dust cover, etc.
- automatic loading and discharging device.

WITH YOUR ENQUIRIES CONCERNING YOUR SPECIFIC MIXING PROBLEMS

Please state :—

(1) Type of material.
(2) Consistency.
(3) Weight per cubic foot.
(4) Percentage moisture required in finished batch.
(5) Degree of abrasiveness and/or corrosiveness.
(6) Production requirements per batch or per hour.

★ The AUGUST-SIMPSON MIX-MULLER Model 00 for laboratory or pilot plant work—capacity ½ cu. ft. per batch. Mechanical discharge, this model is fitted with a Three-Speed Drive.

Inset picture shows the No. 2 size, with mullers (adjustable for height from bottom of pan) and the ploughs which turn over the material and direct it in front of the mullers. The Hood (not shown) supplied as standard for all ceramic installations.

Sole Licensees and Manufacturers of the Simpson Mix-Muller for British Empire (excluding Canada) and Continental Europe.

ALIFAX ENGLAND

August's LIMITED

Telephone: Halifax 61247/8/9
Telegrams: Augusts, Halifax.

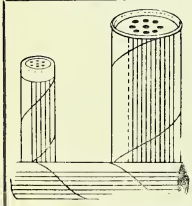
RATS

RATOIDS

PUBLICITY DISCOUNT
AUTUMN 1950

Did YOU take advantage of YOUR Display Discount

PARISEK LTD., 17 VICTORIA STREET, LONDON, S.W



CANISTERS LTD.

invite enquiries for

SPIRALLY WOUND CARDBOARD TUBES, COMPOSITE DRUMS, AND TOILET ROLL CENTRES

FIR ST., WORKS
Heywood, Nr. Manchester

CARBOY STAND AND TILTER

For drawing off small quantities of Acids from Carboys.

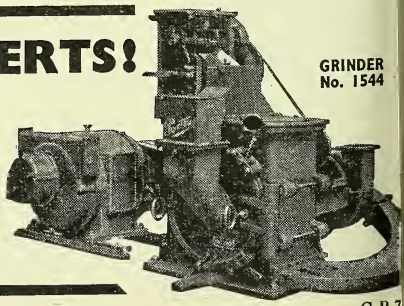
The Carboy can be tipped to any position with one hand.

LEIGH & SONS METAL WORKS
Orlando St., BOLTON

CALL IN THE EXPERTS!

The best way to ensure satisfaction in grinding is to call in the experts—Porteus. Not only do they know what exactly is required, but they can and do invariably advise on the best type for the job in hand. Lengthy experience in design and construction is at your service—why not write now ?

GEORGE PORTEUS & SONS (Leeds) LTD
Provender Milling Specialists
LEEDS BRIDGE WORKS, LEEDS 10



GRINDER No. 1544

Firm Favourites!

with every member of the family . . . .

CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

SOAP · OINTMENT

TALCUM POWDER · SHAVING STICK

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:

HAND CREAM · BABY OIL

SHAVING CREAM · LIQUID ANTISEPTIC

AFTER-SHAVE LOTION

British Distributors: NEWBERY & PHILLIPS LTD.
203, Victoria House, Southampton Row, London, W.C.1
TELEPHONE: HOLBORN 1564

for

THE POTTER DRUG & CHEMICAL CORPORATION
205-207, Victoria House, London, W.C.1

313

Florine 2 PLY GLAMAPAK PETAL-SOFT TISSUE HANKIES

Absorbent Petal Soft, New fold tissues, Improved Fold for Boudoir, Bathroom or for travel use. Conveniently d pensed from specially constructed, attractively print cartons, designed for immediate single selection of c oured tissues without contamination. Each box conta 100 single sheets 9″ x 10″ folded 4¾″ x 5″. Obtainal in white only or supplied assorted tints and self colou

THE POCKET PACK

(shortly available)

Specially designed Dispenser Carton contains regular sized tissues (12 pulls) white only, fold 2½″ x 5″ for handbag, school and travel u

★ **HANKIES** also supplied with embossed hem-stitched borders in Cellophane Pack.

CARRIES FULL PROFIT MARGI R WHOLESALER AND RETAIL

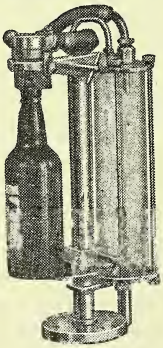
FREEDER BROTHERS PAPER MILL

BRIMSDOWN, ENFIELD, MIDDLESEX

Telephone: Howard 1847 (5 lines). *Telegrams:* Sylkocrepe, Enfield, Middles

The PEARSON VACUUM Liquid FILLING MACHINE

- RAPID
- ACCURATE
- NON-DRIP
- COMPACT



The "PEARSON" Liquid Filling Machine can be operated by unskilled labour. It is easily adjusted for different sizes of bottles, etc., almost any of which can be rapidly filled with fluid without spill or drip.

The machine can be quickly cleaned and sterilized.

S.W. PEARSON LTD.
PECKLETON COMMON · NR. EARL SHILTON · LEICESTER
TEL · DESFORD 381/2 GRAMS · RENCOL

MITCHELL Process Equipment

QUICKER
BETTER
CHEAPER

The correct type of mixer—portable or fixed—high, low or medium speed—adjustable shaft and impellers—will do your job more thoroughly more quickly and with great saving of labour.

Mitchell make all types and will supply just the correct fluid agitator for your specific requirements.

L. A. MITCHELL LIMITED
37 PETER STREET · MANCHESTER 2

MX21

Gillette Christmas sales!

I'm going all out to bring you record Gillette sales this year. For the vital pre-Christmas shopping weeks I'm appearing in a nation-wide advertising campaign featuring the 16, 22, 44, 53 Sets, Blue Gillette Blade Dispensers and Gillette Shaving Brushes. Your customers will see me with my message everywhere. Back me up with good eye-catching display. Make sure your stocks are sufficient to stand a really exceptional demand. This is an outstanding opportunity to make big and profitable sales.

Trade enquiries to your usual wholesaler or direct to Gillette Industries Ltd., Great West Road, Isleworth, Middlesex.

There's lots and lots of Rheumatism about!

And plenty of demand for the most reliable general remedy of all—Curicones.

With its present up-to-date formula, it is a remedy you can recommend to all your Rheumatic customers.

This time of year a small counter show of Curicones will bring quite a nice extra trade, while obviously no chemist should ever let himself run out of stock of either the 5/6 or the 26/5 size.

We still have small supplies left of our novel "weather indicator" showcard. It is most effective and surprisingly accurate. Send us your name and address for one and see the interest it attracts.

CURICONES

AND P.A.T.A.

STEPHEN MATTHEWS & CO., LTD.
19/21 Farringdon Street, London, E.C.4

THE HOUSE OF
HAYWOOD
ESTABLISHED 1830
MANUFACTURERS & DISTRIBUTORS
Everything Surgical
ELASTIC HOSIERY
BELTS AND TRUSSES
CHEMISTS' SUNDRIES
COTTON DRESSINGS
PROPRIETARY MEDICINES
VAN DELIVERY SERVICE
WHOLESALE ONLY

Enquiries Invited:—
Regd. Office and Works
11, 13 & 23, WARSER GATE
NOTTINGHAM
Phone: 40488 & 45164
Grams: APPLIANCE NOTTM.

THERE IS AN EVER WIDENING DEMAND
for
Luxan and Luxol
Sanitary Towels
Personal recommendation is the keynote of this success. Women everywhere appreciate the attractive make-up and reasonable price.
WIDELY ADVERTISED IN THE PUBLIC PRESS
SHOWCARDS AVAILABLE
Luxan Ltd
4 CHEPSTOW STREET : MANCHESTER 1.

fresh facts from **FOUR-SEVEN-ELEVEN**

THIS FULL PAGE is one

of the striking advertisements that will make

4711' a bigger-than-ever seller this Christmas

nk-up with the forceful 'four-seven-eleven' Christmas vertising now appearing in National newspapers and gazines throughout the country. 'four-seven-eleven' ft Boxes will add colour and charm to your window and unter displays—**and they will sell on sight.**

No. 4711.

ade in England by R. J. REUTER COMPANY LTD., SLOUGH, BUCKS.

"CELLOPHANE" BAGS

A FEW STOCK SIZES. ALL PER 1,000

1¾ x 2¾ .. 14/-	3½ x 8 .. 38/6	5 x 5 .. 33/-
2½ x 4 .. 20/-	4 x 4 .. 26/-	5½ x 6½ .. 41/6
3 x 5 .. 26/6	4 x 7 .. 33/6	5 x 9 .. 49/6
3½ x 6½ .. 33/-	4½ x 8 .. 41/6	5½ x 10 .. 55/-

"CELLOPHANE" SHEETS FOR WRAPPING

Also ROLLS and SHEETS PLAIN and COLOURS

Large stocks of WINDOW DRESSING PAPERS, Etc.

SAMPLES WITH PLEASURE

ALLAN'S 57, FARRINGDON STREET, LONDON, E.C.4.
PHONE: CENtral 5947 · 'GRAMS: SUNFLECTA, CENT, LONDON
(UNDER HOLBORN VIADUCT) Business Hours: 9 a.m. to 6 p.m. Closed Saturdays

RELIABILITY

For reliability and accuracy in the recording of cash sales and total takings.

GLEDHIL

BRITISH MADE CASH REGISTERS AND TIL

G. H. GLEDHILL AND SONS LT

28 TRINITY WORKS, HALIFAX

D & P

RELIABLE and SPEEDY SERVICE

We can offer a few Dealers such a service *all the year*

A — QUALITY — SERVICE — PAYS

Arrange now: Cheshire Photographics Ltd.
76 Lower Br. St., Chester Tel: 24298

YERBA MATE

FAMOUS HEALTH TEA FROM SOUTH AMERIC

Wonderfully sustaining and nourishing. Ca be boiled or brewed, or mixed with ordinary te

Numerous unsolicited testimonials received for

Packed in ½lb. packets. Retails at 1/9

Trial order of 1 dozen sent post paid for 16/

YERBA MATE TEA CO. Upper Brook St., Stockpor

WE WANT MILLAMALT

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD., *Leyland Mills, Wigan.* (*London Dept. 19 Brookside Rd. N. 9*) BECAUSE OF THE BUTTERSCOTCH FLAVOUR

THE WORLD'S MOST FAMOUS HAIR TON

stops hair fallin starts sales risin

Petrole Hahn has been renowned throughout world for over 70 years as an unrivalled preparati for preventing scurf, dandruff and falling hair. T fine reputation, growing every year, means *cert* sales for you. Place your order *now*—Hovende will fill your order immediately—no matter how larg

Small size (6/- retail): 28/8 doz. plus 100% P. T

Large size (10/- retail): 48/- doz. plus 100% P. T

PETROLE HAHN

Hovendens

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5-7 FLEET STREET. MANCHESTER: WATTS BROS. (M/C) LT
72 CANNON STREET. BLACKPOOL: WATTS BROS. (M/C) LTD. 88 CORONATION S

When the prescription calls for

ELASTIC ADHESIVE BANDAGE

DISPENSE

Flexoplast BRAND Regd

Non-Fray
Non-Fluffy
Woven-Edged

• **N.H.S. PACK** *in Tins*

Its resilience and retraction provide a firm and comfortable support appreciated by the Medical Profession.

NEW TARIFF PRICES

2½″ × 3 yds.....41/6 per doz. 3″ × 3 yds.....49/- per doz.

Also made in the following sizes:

1″ × 3 yds. 2″ × 3 yds. 4″ × 3 yds.

EDWARD TAYLOR LIMITED

MONTON · LANCS

ESTABLISHED OVER 100 YEARS

TF105

IF YOU HAVE RATS GIVE THEM A BISCUIT

...but make sure it's a VEXTERM RAT BISCUIT, not harmful to pets, human beings or farmyard stock, when used as directed, but death to rats and mice. Clean, safe and easy to handle. From Chemists, Ironmongers and Stores everywhere. Price 1/6 & 5/9

VEXTERM

READY-BAITED

RAT BISCUITS

Agriculture and Fisheries Licence No. 18184

Manufactured by

BRITISH RODENT EXTERMINATOR CO. LTD.

PRATTS BOTTOM · FARNBOROUGH · KENT

Phone: FARNBOROUGH 849

For cool customers

Victory·V

GUMS & LOZENGES N.33

FRYER & CO. (Nelson) LTD., Nelson, Lancs

DOWN WITH FREEDOM!

FOR CORKS

YES, we mean it. We treat corks as m bottle-fodder—brutally stamp out ev vestige of individuality, in quality or dim sions. We are notorious for reducing corks t state of *unbelievable* s *formity*.

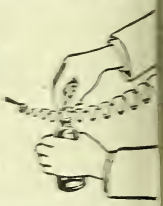
Boiled alive. . . .

The Nazi press-ga had nothing on us. ruthlessly rip the b from Spanish cork-oa boil, scrape, and pr it, then shut it in "hot-box." When thoroughly cowed, punch thousands of corks out of it. These a then subjected to a series of fiendish tortures tapering, bevelling, sanding, notching, ste izing—even branding! If after all this there still 1/63rd of an inch of individuality abou cork—off it goes to be ground up into b products. Sometimes only 5 per cent of a wh batch survive to become corks of our Grade quality.

* * *

If you feel as callous as we do about corks, a want them to be absolutely *alike* in quality a size—just let us know, by letter or telephon Armstrong Cork Co. Ltd. (Closure Division Kingsbury, London, N.W.9. Tel: Colindale 708 Scottish Branch: 5 Oswald Street, Glasgo C.1. Tel: Central 5703.

FREE ON REQUEST. The handy Armstrong string of Standard Cork sizes shows at once what size you want—whether for dispensing or for ordering supplies. May we send you one?



ARMSTRONG'S CORKS

CORKS · CROWN CORKS · MOULDED CA

A
FINE
CHEMICAL
FOR
INDUSTRIAL
USE

For the
cosmetic
manufacturer
there is a
special grade
called
AEROMATT

JOHN & E. STURGE LTD

WHEELEYS ROAD, BIRMINGHAM 15

STURGE PRODUCT

Mary Drake

LUXURY SOAP

for that English complexion which is the admiration of the world

Mary Drake

A CHOICE OF SIX EXQUISITE PERFUMES. IN SIX PASTEL SHADES

Bouquet · Magnolia · Bon-bon · Jade · Honeysuckle · Sandalwood

THREE OZ. TABLET 1/3 (10/- DOZ. INC. TAX). SIX OZ. TABLET 2/6 (20/- DOZ. INC. T.

Harry Green Ltd., Ajax Works, Barking.

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2. 109/

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FINE CHEMICALS

CAMPHOR

ALMOND OIL

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LIQ. EXT. of NUX VOMICA

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TESTED PURITY

HIFFEN & SONS LTD · FULHAM · LONDON SW6

NE CHEMICAL DIVISION OF BRITISH CHEMICALS AND BIOLOGICALS LTD

ephone: RENown 3416

Telegrams: Whiffen, Walgreen, London

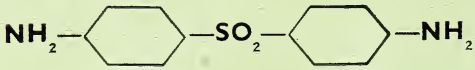
The CHEMIST AND DRUGGIST

NOVEMBER 18, 1950

B&Co. LTD.

SULPHONE (DADPS)

4 – 4 diamino diphenyl sulphone



For home or export

Bulk or tablets

As concessionaires for the British Empire for one of the largest producers of Sulphone in the world, we feel we can be of service to those who are in the forefront of the battle now being so successfully waged against both Leprosy and Pulmonary Tuberculosis.

An example of the services of the Biddle Sawyer Organisation and justification of our endeavours to keep abreast of the latest developments in the pharmaceutical field.

FOLIC ACID — ASPARAGIN

TB I — GONADOTROPHIC HORMONES

LYOPHILIZED PRODUCTS

BIDDLE, SAWYER & CO. LTD.

4 GRAFTON STREET, LONDON, W.1

Telephone: REGent 0521 Telegrams: "BIDSAWYA, PICCY, LONDON"
Cables: BIDSAWYA, LONDON

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